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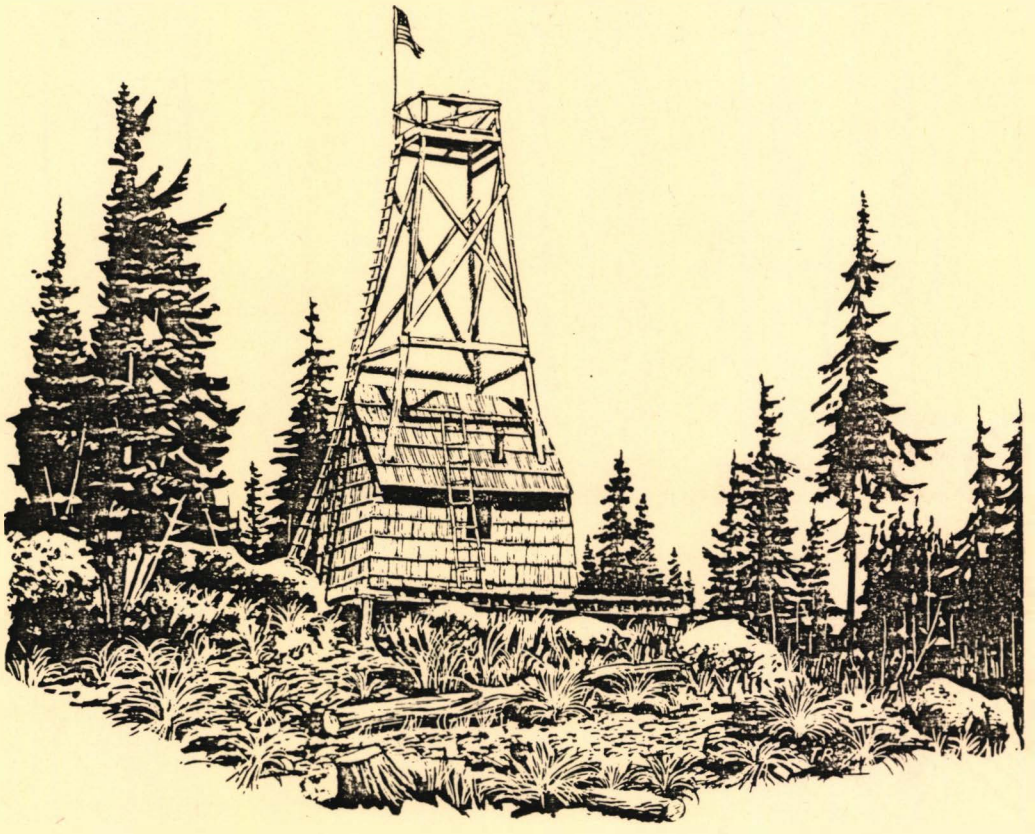
Northern Region

FIXED FIRE DETECTION LOOKOUT HISTORY ON THE CLEARWATER NATIONAL FOREST, IDAHO

by Linnea Keating and Karl Roenke



Fixed Fire Detection Lookout History on the Clearwater National Forest, Idaho

By Linnea Keating and Karl Roenke

USDA, USFS

Northern Region (Region One)

Clearwater National Forest

Orofino

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Cover illustration:

Sheep Mountain Lookout, Clearwater National Forest (from 1924 photo). From Early Days in the Forest Service, volume 4. USDA, USFS, Northern Region, Missoula (page 118).

I. INTRODUCTION

This study is designed to show which fire lookout structures once existed and which ones still exist on the Clearwater National Forest in north central Idaho. The research began in 1985 at the Forest Supervisor's Office in Orofino, Idaho, with examination of historical files containing lookout information from 1910 onward. Files in the Fire Control Office from the 1930's containing "seen area" maps and notes from almost every peak on the forest were reviewed. These files proved invaluable, as they provided dated information describing the conditions of existing lookouts in the 1930's. Another important source referenced was Ray Kresek's book "Fire Lookouts of the Northwest". This book laid the foundation for the study, and in most cases corresponds to the information found on the forest. In addition, the Clearwater Forest historic photo data base provided information and helped determine lookout styles and designs. Construction blue prints of early lookouts were also located and reviewed. As the data was gathered, it was compiled into the enclosed computerized data base list.

II. OVERVIEW

Since the early years of the 20th century, fixed lookout points were the primary means of fire detection in the National Forests. Today that is not so. With the advancement of aerial detection, satellite capabilities, and other electronic technology, more and more lookouts are disappearing, either by natural deterioration or demolition due to safety factors and high maintenance costs.

Prior to the 1920's, a lookout site possibly consisted of a tree platform (crow's nest) and/or alidade table (map board), a tent camp, and the lookout person. Lookout structures of varying designs began to appear in the 1920's. In the 1930's, with the CCC's and other government work programs, lookout construction rapidly expanded. Some lookouts during this period were built to be used in very high instance situations. These proved of limited use however, and were generally torn down several years later (Ralph Space personal communication, 8-5-86). The peak year for number of standing lookouts in the United States was 1953 (Forest Fire Detection by Eliot W. Zimmerman, USFS, USDA, 1969:5). With the increasing use of air patrol flights, the need for lookouts rapidly declined. In the late 1950's and early 1960's only the proven high-detection lookouts were replaced when structures became unusable. The 1980's brought a new phase of lookout use. Some of the unused lookouts are being used once again, but this time for public recreation rentals. A few remain in service for fire detection purposes, but this number is smaller each year.

III. THE DATA BASE

The enclosed lookout list is a summary of previous and existing lookouts on the Clearwater National Forest. As more information becomes available, the data base can easily be corrected and/or expanded. The following is a description of the headings used on the data base printout (Appendix A).

A. Name

The list is sorted alphabetically by lookout name. Lookout site construction phases are then sorted chronologically by construction date.

B. Legal

The legal description is listed as section - township - range. The township for the Clearwater National Forest is always north. The range is east unless designated with a "W" for west.

C. Site Types/Construction Features

The following is a list of site type terms used in the printout:

C-1 cabin: Frame cabin with gable roof built in the 1930's.

Cabin: Unknown style frame building.

Camp: Usually consisting of a map board and tent. May have had a tree platform (crow's nest).

CLW flat: Designed by Chuck Loucka in the 1970's for the Clearwater National Forest. Flat roof design.

Cupola cabin: Unknown style, log or frame building with cupola.

D-6 cupola: Precut frame building with cupola. Built in the 1920's. Had a hip (pyramid) roof on both the cabin and cupola. Designed in District 6 (Region 6). 12' x 12' cabin. Prototype was built in 1915 atop Mt. Hood in Oregon. Sometimes referred to as D5/D6 type.

Emer point: Term taken from early Forest Service maps. Emergency point used during high fire season, sometimes as a tent camp or patrol point for main lookout.

Encl platform: A pole platform which was later enclosed with lumber and glass windows.

Frame cabin: Specific style of hip roofed frame building usually made of whipsawn lumber and built in the 1910 to 1920 period. Some had roof platforms with map board mounted on roof.

G: Gable roof

Garage: Frame building from the 1930's.

H: Hip roof (Actually pyramid shaped, but commonly referred to as "hip" in USFS records).

L-2: 1928 design for District 1 (Region 1). 14' x 12' precut frame building with gable roof cabin and gable roof cupola.

L-3: District 1 (Region 1) design from 1928. Log building with frame cupola. Gable roof on both. 14' x 12'.

L-4: Two designs by C. P. Fickes, et al. for Region 1. 14' x 14' precut frame building. 1930 design had a gable roof. 1931 design had a hip roof. This design was improved upon in Region 6 in 1936.

L-5 log cabin: 1928 designed by C. P. Fickes, et al. for Region 1. Gable roof, approx. 14' x 14' log building.

L-6: Usually a patrol lookout for a main lookout point. Designed for Region 1 by C. P. Fickes, et al. in 1931. Used on a tower or on the ground. 8'9" x 8'9"

Log cabin: Unspecified style log building

Log cabin/cupola: Frame cupola on log cabin of unspecified design.

Log cabin/log cupola: Log cupola on log cabin of unspecified design.

Log cabin/+cupola: Log cabin built originally, then a frame cupola added afterwards (perhaps several years later).

Log observatory: Platform with log railing.

Lookout: Unknown type - usually the information was from an early Forest Service map.

Map board: Horizontal board mounted on a post or rock and serving as a table for a map and siting device.

Pole platform: Platform built using four cut poles (not live trees).

Observ cupola: Small log building of unspecified design and on the ground used for observation (eg. McConnell Mtn. Lookout).

On concrete: On concrete blocks (cinder block). Built up off the ground.

On ground: Placed on ground surface, not on tower.

On log: Log base (log crib built up).

On rock: Native rock and mortar foundation.

Platform: Unknown if tree or pole platform.

R-6 flat: 1950's design from Region 6. Flat roof built with 2 x 6 tongue-in-groove and mopped felt.

R-6 hip: Probably an updated version of the L-4 hip roof style lookout. 1950's design from Region 6.

Spiked tree: Telephone pole spikes on a tree to form a ladder. Usually no platform, just a small seat or branch to sit on.

Steel tower: Steel girder towers first appearing in the 1920's. Most had a small cab on top.

Tower: No information as to style or height of tower.

Trailer L.O.: Mobile trailer design from the late 1950's. Meant to be mobile for temporary lookout point.

Tree ladder: Boards nailed on a tree to form a ladder. Usually no platform, just a small seat or branch to sit on.

Tree platform: Sometimes referred to as a "crow's nest". Built in a tree with boards to sit or stand on. A camp was usually associated with this.

xx' tower: Height of the tower in feet. The early towers used cut poles, but in the 1950's tower timbers changed to use milled and treated timber, and vertical tower legs rather than angled.

Windmill: Reused windmill frames sometimes used for lookout towers.

D. Constr

This is the construction date or earliest recorded date.

E. Remains

Entries are made if the lookout is existing, if there is a foundation or "remains", or if the lookout was moved to another location.

F. Disposal

This shows the disposal (disp) or dismantling date. If the lookout is existing, the entry shows whether it is manned or a recreation rental.

G. Owner (Land owner or manager

D1	=	District 1, Pierce Ranger District, Clearwater National Forest
D2	=	District 2, Palouse Ranger District, Clearwater National Forest
D3	=	District 3, North Fork Ranger District, Clearwater National Forest
D5	=	District 5, Lochsa Ranger District, Clearwater National Forest
D6	=	District 6, Powell Ranger District, Clearwater National Forest
IPNF	=	Idaho Panhandle National Forests
NPNF	=	Nez Perce National Forest
BN	=	Burlington Northern
IDL	=	Idaho Department of Lands
PC	=	Potlatch Corporation
DIAM	=	Diamond International
PRVT	=	private land
BIA	=	Bureau of Indian Affairs

H. References

Code	Reference
1.	Fire Lookouts of the Northwest, by Ray Kresek, Ye Galleon Press, Fairfield, WA; 1984

Code	Reference
2.	Cultural Resource Site Forms located in Cultural Resource (C.R.) section of Supervisor's Office (S.O.) Clearwater National Forest and Idaho State Historic Preservation Office.
3.	Lookout files with seen area maps and notes located in the Fire Control Office, S.O. Clearwater National Forest.
*4.	1970's Lookout inventory. List of lookouts with information on trails, roads, L.O. type, year constructed.
*5.	Letter to the Regional Forester from Jack Godwin 11/16/62, file designation 5650/5100.
*6.	Investment Numbering System (no date). List of building and development with Inventory Project Number.
*7.	List of Lookouts by Ranger District and information on disposal dates from Chuck Peterson to Tom Farbo, about 1979.
8.	Historic Facilities of the Lochsa Ranger District, by Lou Hartig, U.S. Department of Agriculture, Forest Service, Northern Region, Cultural Resource Report No. 5, June 1981
9.	1928 Selway National Forest Map
10.	1935 Former Selway National Forest Map
*11.	Letter to David Bula from the Forest Supervisor 10/19/71 file designation 1600.
*12.	Letter to David Bula from the Forest Supervisor 10/23/73 file designation 1600.
*13.	Region 1 Fire Detection Lookouts 1944, by D. V. Williams, USDA, USFS, Northern Region, 12/77.
14.	December 31,1935 list of existing structures and improvements, located in flat map file in C.R. section at the S.O., Clearwater National Forest.
15.	Northern Region Newsletter No. 18, 9/1/81; Forest Service Northern Region P.O. Box 7669 Missoula, MT. 59807
16.	Lookout Inventory Summary Sheet (located in Building Maintenance section, S.O., Clearwater National Forest). List of lookouts by Ranger District, L.O. name, access, type, year constructed, and repairs needed.
17.	Historic photo files located in Cultural Resource Section of Supervisor's Office, Clearwater National Forest (computer data base).
18.	The Clearwater Story: A History of the Clearwater National Forest, by Ralph S. Space, U.S. Department of Agriculture, Forest Service, Northern Region-79-03, 1981.

Code	Reference
*19.	Report of Plane Table Control Survey, Clearwater and Lolo Forests, by S. E. Greicus, 1937.
20.	John Gaffney interview, 2/28/77, located in oral history file in C.R. section of S.O., Clearwater National Forest.
21.	"Trip Down Memory Lane", Clearwater Tribune newspaper article, 1/13/83.
22.	Lookout rental article in Lewiston Tribune, 7/8/82.
23.	Fire Survey, Clearwater National Forest, 1921-22, USDA, USFS, Clearwater National Forest, Orofino, 161+ pages.
*24.	Letter to David Bula from the Forest Supervisor 11/2/72, file designation 1600.
25.	Informal USFS meeting on Lookouts on Powell Ranger District, Clearwater National Forest, December 1984.
26.	Article on Horseshoe Lake lookout in Clearwater Tribune 10/13/83
27.	Powell Ranger Station historic photo files, Clearwater National Forest
28.	Photograph in Clearwater Tribune 12/16/82.
29.	Lochsa Ranger Station historic photo files, Clearwater National Forest
30.	Personal communication with Mike Doran, Clearwater National Forest Geologist, July 1985.
31.	Clearwater Tribune 1/3/85, page 3B. Early-day Look-out - photograph of Pot Mountain submitted by Harvey Grasser.
32.	Metskers Atlas of Clearwater County, State of Idaho, 1940.
33.	1919 St. Joe National Forest map.
34.	1940 St. Joe National Forest map.
35.	Letter by Karl Roenke, Clearwater Forest Archaeologist, to files 8/10/83, file designation 2360.
36.	Lookout Man's Story, by Ralph Barnes, 1917. Copy on file at Clearwater National Forest.
*37.	Sneak Point Lookout information from Ralph Johnson, Canyon District to Tom Hudson, S.O., about 1978
38.	1915 St. Joe National Forest map.
*39.	Letter from John Gaffney to Mark Anderson, 5/2/83.
40.	1926 Clearwater National Forest map.

Code	Reference
41.	1936 Clearwater National Forest map.
*42.	Letter from Ray Kresek to Canyon Ranger District, 11/16/81.
43.	Musselshell Fire Control Binder No. 3, Improvement Plan and Maintenance Record, Clearwater National Forest, n.d.
*44.	Selway National Forest, Moose Creek Fire Study, 1914.
45.	Report on the Forestal Conditions and Possibilities of the Clearwater National Forest, by Professor C. H. Shattuck, 1912.
46.	Early Days in the Forest Service, Vol. 3, USDA, USFS, Northern Region, Missoula.
47.	History of Administrative Sites on the Clearwater National Forest, 1917.
48.	Historic Place Name cards, located in C.R. section of S.O.
49.	"Where Have All the Fire Towers Gone?", by Sue J. Reynolds, Potlatch Story, (April-June 1979).
50.	Cultural Resource photographic slide files, located in C.R. section at S.O.
51.	1961 Clearwater National Forest map.
52.	Personal communication with Mike Stockton, Orofino, ID.

* Report located in Lookout reference files in Cultural Resource (C.R.) section of Supervisor's Office (S.O.), Clearwater National Forest.

NOTE: Other names used for a lookout site are shown on the printout in quotes after the reference codes.

APPENDIX A

Past and Present Lookouts

on the Clearwater National Forest

Appendix A

Past and Present Lookouts on the Clearwater National Forest

Name	Legal	Site No.	Site Type	Constr	Remains	Disposal	Owner	References
Ant Hill	29-35-08	10-IH-1439	G:L-4; 10' tower	1931±		disp 1946	D5	2,8,14,1
Aunt Sue	32-35-07	ID 15	lookout	n.d.			D5/D1	2
Austin Rdg Patrol	24-35-06	10-IH-1787	lookout	1920's			D1	9,10
Austin Ridge	26-35-06	10-IH-944	L-4 ; 30' tower	1932		disp 1951	D1	3,14,1,9,10,6,43 "Eldorado"
Austin Ridge	26-35-06	10-IH-944	R6 flat;50' tower	1960	existing	rental	D1	16,5,4,7,13,2,1
B.M. Hill	10-38-14	10-CW-218	tree platform	1930's±			D6	3
B.M. Hill	10-38-14	10 CW-218	L-4 ; 40' tower	1932		disp 1973	D6	11,24,12,7,13,19,2,1
Balancing Rock	22-39-07	10-CW-129	L-6 ; on logs	1935±	existing	good shape	D3	6,2,3,14
Bald Knob	10-40-08	10-CW-330	D-6 cupola	1922	fndation	aban 1930's	D3	3,2,14
Bald Knob	10-40-08	10-CW-330	log cabin	1924			D3	1
Bald Mountain	20-36-09	10-IH-1410	cabin	1914			D3	46
Bald Mountain	34-43-02W	10-LT-175	cabin	1913			D2/IPNF	1
Bald Mountain	34-43-02W	10-LT-175	L-4 ; 50' tower	1938			D2/IPNF	1,13,34
Bald Mountain	34-43-02W	10-LT-175	R6 flat;50' tower	1960	existing	manned	D2/IPNF	1,16,4,7
Bar Point	10-39-09	CW 92	H:L-4; 40' tower	1934		disp 1960's	D3/IPNF	6,7,13,19,2,3,14,1,17
Beals Butte	31-42-01W	10-LT-176	L-6 ; 100' tower	1933		disp 1967	PC/PRVT	7,13,1,34
Bear Butte	18-38-09	CW 160	H:L-4; 50' tower	1934		disp 1959	D3/D1	6,7,13,19,2,3,14,1,50
Bear Butte Patrol	08-38-09	10-CW-277	pole platform 20'	1931±			D3/D1	3,6,14
Bear Mountain	26-36-12	10-IH-946	camp	1919			D6	2,8 "Beargrass"
Bear Mountain	26-36-12	10-IH-946	log cabin	1922±	existing		D6	2,1,8,17,27
Bear Mountain	26-36-12	10-IH-946	tree platform	1922	existing?		D6	1
Bear Mountain	26-36-12	10-IH-946	pole platform 40'	1924±			D6	1,2,8,20,17
Bear Mountain	26-36-12	10-IH-946	L-6 ; 50' tower	1935			D6	1,9,10,20
Bear Mountain	26-36-12	10-IH-946	R6 hip;50' tower	1951	existing	manned	D6	21,16,5,4,7,13,2,1,3,27
Beaver Butte	10-40-06	10-CW-278	tree platfrm-East	1921			PC	1,3
Beaver Butte	10-40-06	10-CW-278	tree platfrm-West	1921			PC	1,3
Beaver Butte	10-40-06	10-CW-278	log cabin-East	1923			PC	1,3
Beaver Butte	10-40-06	10-CW-278	pole platfrm-East	1923			PC	1,3
Beaver Butte	10-40-06	10-CW-278	pole platfrm-West	1923			PC	1,3
Beaver Butte	10-40-06	10-CW-278	L-4 ; 50' tower	1934		disp 1962	PC	1,34
Beaver Butte	10-40-06	10-CW-278	L-6 ; 100' tower	1934		disp 1957	PC	1
Beaver Ridge	10-37-16	10-IH-957	camp	1919			D6	1
Beaver Ridge	10-37-16	10-IH-957	L-3	n.d.			D6	19,5,2,1,9,10
Beaver Ridge	10-37-16	10-IH-957	log cabin/cupola	1922			D6	1
Beaver Ridge	10-37-16	10-IH-957	H:L-4; 60' tower	1934			D6	27
Beaver Ridge	10-37-16	10-IH-957	R6 flat; concrete	1963	existing	manned	D6	16,5,4,7,2,1,25
Benton Butte	02-40-05	10-CW-279	85' tower	1930			IDL	1,3

Name	Legal	Site No.	Site Type	Constr	Remains	Disposal	Owner	References
Benton Butte	02-40-05	10-CW-279	steel twr 100'	1935			IDL	1,34
Benton Butte	02-40-05	10-CW-279	steel twr 75'	1948			IDL	1
Bertha Hill	35-40-05	CW 101	lookout	1900			PC	49 "Thunder Mountain"
Bertha Hill	35-40-05	CW 101	tree platform 15'	1902			PC	1
Bertha Hill	35-40-05	CW 101	tree platform	1906			PC	1
Bertha Hill	35-40-05	CW 101	tree platform 1	1910			PC	1
Bertha Hill	35-40-05	CW 101	tree platform 2	1910			PC	1
Bertha Hill	35-40-05	CW 101	pole platform 20'	1918			PC	1
Bertha Hill	35-40-05	CW 101	pole platform 20'	1923			PC	1
Bertha Hill	35-40-05	CW 101	H:L-4; 40' tower	1933			PC	1,2,3,34,17
Bertha Hill	35-40-05	CW 101	steel tower 54'	1958	existing	manned	PC	1
Big Hill	31-33-07	10-IH-1436	L-4 ; 50' tower	1932	fndation	disp 1960	D5	1,2,7,8
Big Sand Lake	35-35-15	ID 173	camp	1940's			D6	13,2,1
Bighorn Patrol	21-38-08	10-CW-280	L-6 ; 20' tower	1935±			D1	19,14
Bighorn Point	21-38-08	10-CW-210	G:L-4; 30' tower	1935±		disp 1958	D1	6,7,13,19,2,14,1,3,17
Birch Ridge	30-41-11	10-CW-215	G:L-4; 40' tower	1932		disp 1959	D3	6,7,13,19,2,14,1,3,34,17
Black Butte Patrol	27-41-07	CW 412	L-6 ; 30' tower	1930's			D3	14,34,3,17 "West Sister"
Black Mountain	23-41-07	10-CW-238	G:L-4; on ground	1931			D3	1,14,3 "Black Butte"
Black Mountain	23-41-07	10-CW-238	H:L-4;on concrete	1952			D3	1,34,5,4,13
Black Mountain	23-41-07	10-CW-238	CLW flat;concrete	1972	existing	manned	D3	1,13,2,7,24,4,16
Blacklead	08-38-13	10-CW-217	camp	1926			D3/D6	17
Blacklead	08-38-13	10-CW-217	pole platform 25'	1929			D3/D6	1,3,9,10,19,2,13,7
Blacklead	08-38-13	10-CW-217	log cabin/+cupola	1928/32			D3/D6	1,17
Blacklead	08-38-13	10-CW-217	L-4 ; 30' tower	1935±			D3/D6	14
Blacklead	08-38-13	10-CW-217	L-4 ; on ground	1935±		disposed	D3/D6	14
Blacklead Patrol	17-38-13	CW 429	tree ladder 35'	1920's			D3/D6	14,17 "Ladder Point"
Boehls Butte	30-41-05	10-CW-435	L-4 ; 40' tower	1934		disp 1972	IDL	34,1
Boundary Point(Pk)	19-35-08	10-IH-884	H:L-4; 20' tower	1934		disp 1954	D5	7,2,8,14,1,3,17
Boundary Point(Pk)	19-35-08	10-IH-884	garage	1940's		disp 1954	D5	2,8
Brown Creek Patrol	03-34-05	10-CW-439	tree platform	1913			IDL	9,10,3,1
Brown Creek	34-35-05	10-CW-438	tree platform	1910			PC	3,1
Brown Creek	34-35-05	10-CW-438	cabin	1913			PC	3,1
Brown Creek	34-35-05	10-CW-438	steel tower 100'	1934			PC	1
Brown Ridge	02-34-05	10-CW-430	G:L-4; 50' tower	1933			IDL	2,3,43,6,14,9,10,13,1,17
Brown's Rock	21-39-06	10-CW-134	pole platform	1923			PC	1
Brown's Rock	21-39-06	10-CW-134	encl platform	1931			PC	1
Brown's Rock	21-39-06	10-CW-134	L-4 ; 50' tower	1934		disp 1963	PC	1,3
Brown's Rock	21-39-06	10-CW-134	ladder on rock	n.d.			PC	2
Bruin Hill	35-40-12	CW 170	L-2	1929		disp 1960	D3	1,14,3,2,19,39,13,7,6,12,17

Name	Legal	Site No.	Site Type	Constr	Remains	Disposal	Owner	References
Brush Hill	21-34-07	10-IH-1644	lookout	1920's			D5	9,10
Cabin Gulch	32-43-03W	10-LT-144	tree platform	1930's			D2	2,34
California Point	32-35-12	ID 115	tree platform	1939			D6/NPNF	2,8
Camp Moosehorn	05-34-07	10-IH-1645	lookout	1920's			D1/D5	9,10
Cantaloupe Creek	11-34-09	10-IH-1646	camp	1934		aban 1942	D5	11,7,1
Castle Butte	28-36-10	10-IH-999	camp	1914			D5	8,2
Castle Butte	28-36-10	10-IH-999	frame cabin	1916			D5	2,1,8
Castle Butte	28-36-10	10-IH-999	barn/garage	1920			D5	2,8,3
Castle Butte	28-36-10	10-IH-999	L-3	1929		disp 1950	D5	2,8,14,1,3,9,10
Castle Butte	28-36-10	10-IH-999	garage	1941			D5	2,8
Castle Butte	28-36-10	10-IH-999	H:L-4; on rock	1950	existing	rental	D5	15,5,4,7,2,8,1
Cat Point	02-40-07	10-CW-455	emer point	1936			D3	3
Cave Point	23-39-07	CW 91	G:L-4; 30' tower	1931		disp 1960	D3	6,7,13,2,14,1,3,17
Cave Point Patrol	13-39-07	10-CW-459	L-6 ; on log	1935±			D3	14,3,17
Cedar Knob	27-34-07	ID 55	tree platform	1920's			D5	2,9,10
Cedars	19-34-06	10-IH-1320	tree platform	1920's	existing		D1/D5	2,9,10,3
Chamberlain Mtn	09-41-10	CW 183	lookout	n.d.			D3	2,3
Chambers Hill	19-39-01	10-LT-177	tree platform	1934		aban 1940's	D2/PC	1,34
Charles Butte	29-44-02W	10-BW-58	pole platform	1940		disp 1955	D2	15,7,13,2,1,34
Charles Butte	29-44-02W	10-BW-58	frame cabin	n.d.	existing		D2	2
Chateau Rock	31-39-08	CW 162	G:L-4; 10' tower	1931±	fndation	disp 1958±	D3	6,7,13,20,2,1,17
Chateau Rock	31-39-08	CW 162	lookout	n.d.	remains		D3	17
Clarke Mountain	14-38-07	10-CW-224	D-6 cupola	1920's			D1/D3	17
Clarke Mountain	14-38-07	10-CW-224	camp	1930			D1/D3	1 "USFS Elk Mountain"
Clarke Mountain	14-38-07	10-CW-224	L-4 ; on ground	1935±			D1/D3	14
Clarke Mountain	14-38-07	10-CW-224	L-4 ; on concrete	1952	existing	not manned	D1/D3	16,4,7,13,2,1,5
Cold Springs	26-40-09	10-CW-90	camp	1915±			D3	3,38
Cold Springs	26-40-09	10-CW-90	H:L-4; 20' tower	1931		disp 1959	D3	6,7,13,2,3,34,1,17
Cold Springs	26-40-09	10-CW-90	log cabin	1931	existing	aban 1953	D3	19,2,14,1
Collins Peak	29-42-08	10-SE-474	camp	1931			D3/IPNF	3
Cook Mountain	34-38-09	10-CW-58	tree platform	1917			D1	3,1,2,17
Cook Mountain	34-38-09	10-CW-58	L-6 ; 50' tower	1931±		disp 1951	D1	3,14,2,19,13,7,28,43
Cook Mountain	34-38-09	10-CW-58	L-4 cabin	1941			D1	1
Coolwater	33-33-08	10-IH-981	frame cabin	1917			NPNF/D5	46,17
Coolwater	33-33-08	10-IH-981	log cabin	1926			NPNF/D5	1
Coolwater	33-33-08	10-IH-981	G:L-4; on ground	1931	existing		NPNF/D5	1,9
Coolwater	33-33-08	10-IH-981	H:L-4; 10' tower	1953	existing	manned	NPNF/D5	1,15,12,9,10,2
Cooperation Point	27-36-13	ID 146	L-4 ; 50' tower	1934		disp 1950	D6	7,13,19,2,1,25
Crane Point	26-43-04W	10-BW-55	lookout	1930's			D2/PC	34

Name	Legal	Site No.	Site Type	Constr	Remains	Disposal	Owner	References
Crooked Forks	27-39-14	CW 9	camp	1930's			D3	1,13,19,2,3
Dan Lee Ridge	19-36-06	10-CW-308	tree ladder	n.d.			D1	2
Dan Ridge	09-36-16	10-IH-963	L-4 ; 30' tower	1934		disp 1973	D6	11,24,12,7,13,19,2,1,3
Deadhorse	07-39-07	CW 76	log cabin	1914			D3	1,3
Deadhorse	07-39-07	CW 76	tree platform	1914			D3	1
Deadhorse	07-39-07	CW 76	L-4 ; 40' tower	1934		disp 1961	D3	1,3,7,13,2,20
Deadhorse	18-39-07	CW 77	G:L-4; on logs	1935±			D3	6,20,2,14,3,17
Deadmule	09-39-07	10-CW-460	camp	1936±			D3	7,3
Dewey	21-36-06	10-CW-190	tree platform	1930±			D1	3
Dewey	21-36-06	10-CW-190	G:L-4; on log	1930±		dest 1952	D1	7,2,14,1,3,43,17
Diablo Mountain	08-34-15	ID 184	camp	1910			D6	44,45
Diablo Mountain	08-34-15	ID 184	G:L-4; on ground	1930's			D6	5,2,1,27,9,10,17
Diablo Mountain	08-34-15	ID 184	R6 flat;concrete	1965±	existing	not manned	D6	16,4,7,13,1,17
Dog Lookout	19-41-07	10-CW-239	lookout	n.d.			D3	2
Doris Butte	11-37-08	CW 121	L-4 ; 10' tower	1931		disp 1962	D1	7,13,19,2,14,1,3,43
Dry Point	02-33-07	10-IH-1434	L-4 ; 20' tower	1934	fndation	disp 1963	D5	1,8,2,6,7
Dull Axe	36-39-05	10-CW-332	tree platform	1915			D3/PC	1
Dull Axe	36-39-05	10-CW-332	pole platform	1924			D3/PC	1
Dull Axe	36-39-05	10-CW-332	log cabin	1927	existing	collapsed	D3/PC	1,2
Dull Axe	36-39-05	10-CW-332	L-4 ; 40' tower	1934			D3/PC	1,2,34
Dull Axe Patrol	25-39-05	10-CW-332	L-6 ; 60' tower	1934			D3	1,2
Eagle Mountain	32-35-11	10-IH-1433	camp	1915			D6	2,8,9,10
Eagle Mountain	32-35-11	10-IH-1433	cabin	1932±			D6	6
Eagle Point	23-40-07	10-CW-230	G:L-4; on log	1931			D3	3,14,19,13,6,34
Eagle Point	23-40-07	10-CW-230	R6 hip;41' tower	1953			D3	4,5,21
Eagle Point	23-40-07	10-CW-230	CLW flat;40' tow	1973	existing	manned	D3	2,16,4,12,7
East Dennis	15-43-03W	10-BW-51	tree platform	1915			D2	1,7,2,33,29
East Dennis	15-43-03W	10-BW-51	L-4 ; 30' tower	1933		disp 1962	D2	1,13,2,34
East Gold Hill	13-42-04W	LT 6	camp	1933			IDL	2
East Gold Hill	13-42-04W	LT 6	L-4 ; 50' tower	1935		disp 1968	IDL	7,2,1,34
Elizabeth Mtn	30-40-10	CW 182	camp	1930's			D3	19,2,1,3,34
Elk Butte	05-40-03	CW 70	camp	1912			D2/PC	1
Elk Butte	05-40-03	CW 70	log cabin	1918		burned	D2/PC	1
Elk Butte	05-40-03	CW 70	platform tower	1918			D2/PC	1
Elk Butte	05-40-03	CW 70	log cabin	1926	existing		D2/PC	1,2
Elk Butte	05-40-03	CW 70	30' tower	1933			D2/PC	1
Elk Butte	05-40-03	CW 70	steel twr 80'	1948	existing	manned	D2/PC	1,34
Elk Mountain,East	16-38-07	10-CW-341	log w/log cupola	1931	remains	collapsed	D1/D3	2,14,1,3
Elk Mountain,West	07-38-07	10-CW-219	tree platform	1914			D3	1,3

Name	Legal	Site No.	Site Type	Constr	Remains	Disposal	Owner	References
Elk Mountain,West	07-38-07	10-CW-219	log cabin	1914			D3	1,3
Elk Mountain,West	07-38-07	10-CW-219	pole platform	1915			D3	1,3
Elk Mountain,West	07-38-07	10-CW-219	L-4 ; 50' tower	1934		disp 1972	D3	1,3,2
End Butte(Point)	08-34-11	10-IH-1432	camp	1922			D5	2,8,1,7
End Butte(Point)	08-34-11	10-IH-1432	H:L-4; 10' tower	1939		disp 1955	D5	3,14,2,8,6,13
End Point Patrol	22-40-08	10-CW-402	L-6 ; 20' tower	1930's	fndation		D3	14,34,2,1
Fern Mountain	03-40-12	CW 430	lookout	1930's			D3	1
Fire Creek Point	29-33-09	10-IH-1789	camp	1930's			D5	1
Fish Butte	36-35-08	10-IH-995	camp	1917			D5	8
Fish Butte	36-35-08	10-IH-995	log cabin	1922		disp 1946	D5	2,14,1,3,9,10,8
Fish Butte	36-35-08	10-IH-995	G:L-4; on log	1930		disp 1953	D5	2,14,1,3,9,10,8
Fish Butte	36-35-08	10-IH-995	H:L-4; concrete	1953		disp 1985	D5	15,5,4,7,2,1,8
Fish Creek	33-35-07	10-IH-1790	lookout	1920's			D5	9,10
Five Lakes Butte	25-42-09	10-SE-475	lookout	1913			D3/IPNF	17,23
Five Lakes Butte	25-42-09	10-SE-475	camp	1931			D3/IPNF	3,14,1,34
Fly Hill	31-41-10	10-CW-213	log cabin	1934			D3	1,17 "Fly Camp"
Fly Hill	31-41-10	10-CW-213	L-4 ; 10' tower	1934			D3	6,7,13,19,2,14,1,3,34
Flynn Butte	18-42-02W	10-LT-134	tree platform	1919	existing		D2	7,2,1
Fourth of July	32-39-09	10-CW-457	camp	1935±		aban 1930's	D3	32,1
French Mountain	33-37-06	10-CW-434	G:L-4 ; 40' tower	1932		disp 1960's	D1	11,7,13,14,1,3,43,17
French Mtn patrol	33-37-06	CW 433	spiked tree	1935±			D1	14
Frenchman Butte	02-34-07	10-IH-972	tree platform	1918			D5	2
Frenchman Butte	02-34-07	10-IH-972	L-4 ; 40' tower	1933		disp 1965	D5	2,1,3,9,10,6,7,8
Frenchman Butte	02-34-07	10-IH-972	garage	1935±			D5	2,3
Frenchman Butte	02-34-07	10-IH-972	cabin	1936		disp 1958	D5	2,8
Glade Creek	15-34-07	10-IH-577	lookout	1920's			D5	2,9,10
Glade Creek	23-34-07	10-IH-978	spiked tree	n.d.	existing		D5	2
Goat Lake	09-38-13	10-CW-331	L-6 ; 10' tower	1930's			D3/D6	2,7,19,14,9,10
Goat Ridge	01-41-06	10-CW-222	L-2 ; on log	1929		disp 1963±	D3	7,13,2,14,3,6,34,40
Goat(Grassy) Point	12-41-06	CW 408	L-6 ; on ground	1934		aban 1940's	D3	34,3,1,14,6
Gold Butte	36-40-03	10-CW-89	pole platform 80'	1915			IDL	2,1
Gold Butte	35-40-03	10-CW-89	log cabin	1923		existing?	IDL	2,1
Gold Butte	35-40-03	10-CW-89	74' tower	1933		disp 1965	IDL	2,1,34
Gold Hill	23-42-04W	10-LT-135	cabin	1916		burn 1925	IDL/PC	2,33,1
Gold Hill	23-42-04W	10-LT-135	windmill w/cab	1916			IDL/PC	1
Gold Hill	23-42-04W	10-LT-135	40' tower	1933		disp 1966	IDL/PC	2,13,7,34
Gold Hill	23-42-04W	10-LT-135	cabin	1933			IDL/PC	2
Gold Hill	28-35-10	10-IH-1430	L-4 ; 30' tower	1931		disp 1967	D5	7,2,8,14,1,3
Gold Meadows	16-35-11	ID 557	log cabin/tent	1937			D5/D6	3,8

Name	Legal	Site No.	Site Type	Constr	Remains	Disposal	Owner	References
Gold Meadows ptrl	20-35-11	ID 558	tree platform	1938±			D5/D6	3,8
Goose Point	28-41-12	CW 431	camp	1930's			D3	1
Goose Ridge	25-41-11	CW 126	camp	1940			Diam	1,3,7,2,34
Gorman Hill	22-39-11	10-CW-207	L-4 ; 40' tower	1934		disp 1964	D3	11,6,7,13,19,2,14,1,3
Gospel Hill	21-42-10	10-SE-64	camp	1934			D3	7,13,19,2,1,3,34
Granite Point	18-40-04W	10-LT-191	lookout	1930's			PRVT	34
Grave Butte	17-36-11	10-IH-964	camp	1928			D6	8
Grave Butte	17-36-11	10-IH-964	L-3	1930		disp 1972	D6	11,23,7,19,2,14,1,3,9,10
Grave Peak	08-35-14	10-IH-575	camp	1914			D6	44
Grave Peak	08-35-14	10-IH-575	D-6 cupola	1924	existing	not manned	D6	11,7,2,1,9,10
Green Mountain	02-40-03	10-CW-458	tree platform	1915		aban 1930±	IDL/PC	1,34
Green Point	34-39-08	10-CW-323	camp	1930's			D3	2
Grouse Point	09-35-09	ID 511	L-4 ; 30' tower	1933		burn 1934	D5	2,8
Grouse Point	09-35-09	ID 511	camp	1935			D5	1
Hemlock Butte	07-36-07	10-CW-37	camp	1914±			D1	20
Hemlock Butte	07-36-07	10-CW-37	frame cabin/plat	1919			D1	17,46
Hemlock Butte	07-36-07	10-CW-37	D-6 cupola	1923		disp 1947	D1	2,1,20,3,43,9
Hemlock Butte	07-36-07	10-CW-37	garage	1934			D1	3,14,43
Hemlock Butte	07-36-07	10-CW-37	L-4 ; 50' tower	1934			D1	14,1,3,43
Hemlock Butte	07-36-07	10-CW-37	R6 hip;50' tower	1954	existing	manned	D1	21,16,5,4,7,2,1,10
Hemlock Butte Ptrl	12-36-06	CW 432	spiked tree	1935±			D1	14
Hemlock Butte	12-41-02	CW 55	tree platform	1914			PC	1
Hemlock Butte	12-41-02	CW 55	log cabin	1917	existing		PC	1,2
Hemlock Butte	12-41-02	CW 55	platform tower	1923			PC	1,2
Hemlock Butte	12-41-02	CW 55	7x7 w/ 50' tower	1926			PC	1
Hemlock Butte	12-41-02	CW 55	L-6 ; 74' tower	1934		disp 1969	PC	1,34
Hidden Peak	16-35-16	10-IH-948	16x16 shake cabin	1924±			D6	19,2,1,3,9,10 "Frog Peak"
Hidden Peak	16-35-16	10-IH-948	L-4 ; on ground	1930's			D6	3,19,10
Hidden Peak	16-35-16	10-IH-948	R6 flat; concrete	1961	existing	not manned	D6	16,5,4,7,2,1,27
Higgins Hump	13-33-06	10-IH-1786	tree platform	1934		aban 1941	D5	1
Hornet Point	28-41-10	10-CW-340	L-6 ; 50' tower	1934			D3	2,1,19,14,3,34
Horseshoe Lake	10-37-11	10-CW-234	log observatory	1920's			D6	17
Horseshoe Lake	10-37-11	10-CW-234	log cabin	1921		burn 1961	D6	2,1,3,9,10
Horseshoe Lake	10-37-11	10-CW-234	tower	1930's			D6	19
Horseshoe Lake	10-37-11	10-CW-234	L-4 ; 50' tower	1962	moved in	disp 1983	D6	26,5,4,24,6,7,13,2
Hot Springs Point	09-36-13	ID 147	cabin	1929		disp 1956	D6	7,19,2,1,9,10
Hot Springs Point	09-36-13	ID 147	L-4 ; xx' tower	1929			D6	7,2
Huckleberry Butte	23-34-09	10-IH-1788	lookout	1920's			D5	9,10
Hungry Point	04-36-10	ID 36	camp	1934			D1	1

Name	Legal	Site No.	Site Type	Constr	Remains	Disposal	Owner	References
Hungry Point	04-36-10	ID 36	L-4 ; 10' tower	1934		disp 1948	D1	7,19,2,14,1,3,43
Idaho Point	31-33-08	10-IH-1428	tree platform	1930			D5	1
Idaho Point	31-33-08	10-IH-1428	G:L-4; on log	1932		burn 1934	D5	1,2,8,7
Independence Ridge	33-40-11	10-CW-456	camp	1930±			D3	1
Indian Grave Peak	01-36-10	10-IH-1001	L-4 ; 50' tower	1934			D6	2,1,3,19
Indian Grave Peak	01-36-10	10-IH-1001	L-4 ; 50' tower	1955	fndation	moved 1962	D6	7,2,1,8
Indian P.O.	19-37-12	10-IH-1448	log w/log cupola	1922			D6	7,13,19,2,1,3,9,10,17
Isabella Point	08-41-07	10-CW-440	camp	1930's			D3	1
Jackson Mountain	12-40-01	10-CW-426	log cabin	1914	existing?		D2/PC	1,2
Jackson Mountain	12-40-01	10-CW-426	platform tower	1914			D2/PC	1
Jackson Mountain	12-40-01	10-CW-426	55' tower w/ cab	1924			D2/PC	1
Jackson Mountain	12-40-01	10-CW-426	50' tower w/ cab	1929			D2/PC	1,2,34
Jay Point	31-37-14	10-IH-951	tree platform	1929			D6	1
Jay Point	31-37-14	10-IH-951	L-4 ; on ground	1929			D6	19,2,3
Jay Point	31-37-14	10-IH-951	log cabin	1929			D6	1
Jay Point	31-37-14	10-IH-951	H:L-4 ; 40' tower	1955	existing	not manned	D6	16,5,4,7,13,2,1,25 (R6 hip?)
Jericho Mountain	17-39-03	10-CW-443	tree platform	1920			D2	1
Jericho Mountain	17-39-03	10-CW-443	log cabin	n.d.	existing	collapsed	D2	2
Jericho Mountain	17-39-03	10-CW-443	L-6 ; 70' tower	1932	remains		D2	1,34,30,2
Jerry Johnson	02-36-12	10-IH-960	L-4 ; 40' tower	1934		disp 1972	D6	24,7,2,1,19
Johnagan Mountain	30-37-09	CW 178	L-4 ; on ground	1931		disp 1947	D1	7,13,19,2,14,1,3,43
Johnagan Patrol	32-39-12	CW 438	L-6 ; 50' tower	1935±			D3	14 "Toboggan Patrol"
Junction Mountain	25-39-09	10-CW-209	camp	1924			D3	17
Junction Mountain	25-39-09	10-CW-209	G:L-4; on logs	1931±			D3	14,1,3,19,2
Junction Mountain	25-39-09	10-CW-209	R6 hip;50' tower	1953	existing	not manned	D3	21,16,5,4,12,6,7,13,1
Jungle Point	15-33-06	10-IH-1797	L-4 ; xx' tower	1930's			D5	1
Kelly's Sister	18-39-13	10-CW-477	log cabin	1936		burn 1936	D3	1
Kelly's Sister	18-39-13	10-CW-477	steel tower 90'	1936			D3	1
Kellys Thumb	22-39-12	10-CW-479	camp	1930±			D3	1
Larch Butte	24-37-07	10-CW-193	L-4 ; 30' tower	1933			D1	14,7,2,43
Larch Butte	24-37-07	10-CW-193	camp	1941			D1	1
Larkins Peak	31-42-07	10-SE-897	lookout	1931			D3/IPNF	3
Larson Point	08-39-08	CW 72	camp	1930's			D3	17
Larson Point	08-39-08	CW 72	log cabin	1930's		disp 1960	D3	7,13,2,1
Lean-to Ridge	28-37-08	10-CW-236	log cabin/+cupola	1920's			D1	3,9,17
Lean-to Ridge	28-37-08	10-CW-236	garage	1934		disp 1964	D1	2,14,3,43
Lean-to Ridge	28-37-08	10-CW-236	L-4 ; 40' tower	1934		disp 1963	D1	6,7,13,19,2,14,1,3,10,43
Little Baldy	03-42-02W	10-LT-199	lookout	1935			D2	34,1
Little Weitas Btte	23-36-08	10-IH-1798	L-6 ; 10' tower	1935±			D1	14

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Liz Butte	21-36-09	10-IH-991	camp	1926			D1	3
Liz Butte	21-36-09	10-IH-991	log cabin	1927	existing		D1	7,14,1,3,43
Liz Butte	21-36-09	10-IH-991	L-6 ; 50' tower	1931		disp 1951	D1	14,3,1,7,43
Liz Butte	21-36-09	10-IH-991	garage	1935	fndation		D1	3,43
Lochsa Point/Peak	04-34-09	10-IH-1427	tree platform	1930			D5	2,8,3
Lochsa Point/Peak	04-34-09	10-IH-1427	L-4 ; on log	1930		disp 1950's	D5	14,3,7,13,8
Lochsa Point/Peak	04-34-09	10-IH-1427	camp	1934		aban 1940	D5	1
Lolo Creek/Forks	10-35-06	10-IH-1370	L-4 ; on log	1931		aban 1935	D1	2,14,3,43
Lolo Creek/Forks	10-35-06	10-IH-1370	camp	1935			D1	1
Lone Knob	36-35-09	10-IH-1793	camp	1930's			D5	1
Long Creek	08-41-11	10-IH-466	camp	1930's		aban 1941	D3	19,1,3,34
Long Creek Patrol	08-41-11	10-IH-466	camp	1930's			D3	19
Long Lake Ridge	19-35-11	ID 559	tree platform	n.d.			D5	1
Lookout Peak	33-38-10	10-CW-212	lookout	1920's			D6	23
Lookout Peak	33-38-10	10-CW-212	cabin	1934			D6	1,2,17
Lookout Peak	33-38-10	10-CW-212	L-6 ; 40' tower	1934		disp 1962	D6	11,6,23,7,13,19,2,14,1
Lost Ridge	23-41-08	10-CW-480	camp	1931			D3	1,3,13,34
Lost Ridge Patrol	13-41-08	10-CW-470	L-6 ; on ground	1930's			D3	1,14,34
Lost Ridge Patrol	23-41-08	10-CW-471	lookout	1930's			D3	1,34
Lunde Peak	23-38-11	10-CW-347	G:L-4; on ground	1931		disp 1962	D3/D6	6,7,13,19,2,14,1,3,17
Mallard Peak	36-42-07	10-SE-65	G:L-4; on ground	1930	existing	not manned	D3/IPNF	3,42,19,40,1
Mallark Peak	36-42-07	10-SE-65	camp	1914			D3/IPNF	42,1
Maple Lake	18-34-14	10-IH-956	cupola cabin	1925			D6/NPNF	11,2,1,9,10,7,13
McConnell Mountain	23-35-12	10-IH-1425	camp	1918			D6/NPNF	2,8
McConnell Mountain	23-35-12	10-IH-1425	log cabin	1922	existing	not manned	D6/NPNF	12,7,8,2,1,3,9,10,17
McConnell Mountain	23-35-12	10-IH-1425	observ cupola	1935±	existing		D6/NPNF	2,3
McGary Butte	29-40-01	10-LT-194	L-4 ; 50' tower	1935		disp 1970	D2/BLM	1,34
McLendon Butte	11-34-8	10-IH-1795	lookout	1920's			D5	9,10
Meadow Point	12-41-10	10-CW-463	camp	1930			D3	1,34
Mica Mountain	15-41-02W	10-LT-197	camp	1914			D2/IDL	1
Middle Butte	09-34-08	ID 514	pole platform	1915			D5	2,8
Middle Butte	09-34-08	ID 514	cabin	1920±	fndation	aban 1930	D5	1,2
Midway	17-39-09	CW 435	camp	1930's			D3	1
Mineral Mountain	18-43-04W	LT 2	40' tower	1935			D2/BIA	1,2,34
Mineral Mountain	18-43-04W	LT 2	steel twr 52'	1966		disp 1981	D2/BIA	1
Mission Mountain	15-43-05W	10-LT-150	tree platform	1920's	existing		IDL	1,2
Mission Mountain	15-43-05W	10-LT-150	tower	1930's			IDL	1,34,13
Mocus Point	25-36-11	10-IH-955	tree platform	1933			D6	20,2,1,8,17
Mocus Point	25-36-11	10-IH-955	cabin	1942			D6	2,8

Name	Legal	Site No.	Site Type	Constr	Remains	Disposal	Owner	References
Mocus Point	25-36-11	10-IH-955	H:L-4; 40' tower	1949	fndation	disp 1973	D6	5,12,7,20,2,8,1
Monroe Butte	17-37-10	10-CW-469	camp	1930's			D1	1
Moon Hill	16-41-03W	10-LT-198	emer point	1930's			PC	34
Moose Mountain	27-40-10	10-CW-214	lookout	1919			D3	46
Moose Mountain	27-40-10	10-CW-214	log cabin	1930's			D3	14,2,17 "Model Mtn"
Moose Mountain	27-40-10	10-CW-214	G:L-4; on logs	1931		disp 1950's	D3	7,13,2,14,1,3,34,17
Morgans Point	09-38-07	CW 434	lookout	n.d.		aban 1930's	D3	14
Moscow Bar	25-40-08	10-CW-132	L-4 ; 40' tower	1934±	remains	aban 1940's	D3	11,7,13,19,2,14,1,3,34
Moscow Mtn, East	16-40-04W	10-LT-201	L-4 ; 40' tower	1934±			IDL	34,7,1
Moscow Mtn, East	16-40-04W	10-LT-201	steel tower 74'	1950's		disp 1981	IDL	1
Moscow Mtn, West	17-40-04W	LT 5	steel tower 74'	1935±		move 1950's	IDL	1,2,34
Mt. Margaret	14-41-03W	LT 3	camp	1936			D2/PC	2
Mt. Margaret	14-41-03W	LT 3	L-4 ; xx' tower	1936		disp 1952	D2/PC	1,2,13,34
Mud Creek	04-33-06	10-IH-1005	tree platform	1915			D1	17
Mud Creek	04-33-06	10-IH-1005	tree platform	1932			D1	1,3,2,9
Mud Creek	04-33-06	10-IH-1005	steel tower 100'	1933	fndation	disp 1977±	D1	1,3,14,11,7,2,10,6,13,43
Mud Creek	04-33-06	10-IH-1005	C-1 cabin	1934	fndation		D1	3,2,14,43
Mud Creek	04-33-06	10-IH-1005	garage	1934	fndation	move 1951	D1	3,2,14,43
Mud Creek Patrol	33-34-06	10-IH-1796	spiked tree	1932±			D1	14,3
Mud Creek Patrol	08-33-06	ID 561	spiked tree	1935±			D1	14
Muscovite	20-41-02W	10-LT-195	emer point	1930's			IDL	34
Mush Camp	31-40-09	10-CW-274	tower	n.d.	remains		D3	2,19
Mush Point	36-40-08	10-CW-473	camp	1941		aban 1940's	D3	1
Mush Point Patrol	32-40-09	CW 181	L-6 ; 50' tower	1935			D3	14,19,2,34,3
no name	06-33-07	10-IH-1052	spiked tree 150'	n.d.	existing		D5	2
no name	12-39-07	CW 414	lookout	n.d.			D3	2
no name	20-40-11	CW 157	lookout	n.d.			D3	2 "Old Potlatch L.O."
no name	22-42-01W	10-LT-193	lookout 77'	1919±			PC	33
no name	33-37-14	ID 145	tree platform	n.d.			D6	2
no name	34-34-07	10-IH-976	tree platform	n.d.	existing		D5	2
no name	35-34-07	10-IH-977	tree platform	n.d.	existing		D5	2
Nub	30-41-08	CW 83	camp	1915			D3	20,1,17
Nub	30-41-08	CW 83	G:L-4; on ground	1929			D3	7,13,19,2,14,1,3,34
Old Man Point	20-34-09	ID 103	G:L-4; 20' tower	1931		burn 1934	D5	2,8,14,17
Old Man Point	20-34-09	ID 103	camp	1934		aban 1942	D5	1
Osier Ridge	12-40-11	10-CW-216	camp	n.d.			D3	17 "Geir"
Osier Ridge	12-40-11	10-CW-216	log cabin	1921			D3	1,2,14
Osier Ridge	12-40-11	10-CW-216	pole platform	1921			D3	1
Osier Ridge	12-40-11	10-CW-216	L-4 ; 50' tower	1938		disp 1962	D3	1,14,13,3,6,34

Name	Legal	Site No.	Site Type	Constr	Remains	Disposal	Owner	References
Osier Ridge	12-40-11	10-CW-216	R6 flat; 42' tow	1961	existing	manned	D3	1,2,7,4,5,16
Paradise Point	14-40-05W	10-LT-202	emer point	1930's			PRVT	34
Pete Forks	09-35-07	ID 24	L-4 ; 50' tower	1934		disp 1948	D1	7,2,14,1,3,43
Pete Forks	09-35-07	ID 24	garage	1935		moved 1951	D1	14,3,43
Pole Mountain	15-42-08	10-SE-38	log cabin/cupola	1920's		disp 1955	BN	1,2,34,3
Pole Mountain	15-42-08	10-SE-38	camp/shelter	1921			BN	46
Pollock Hill	31-40-12	10-CW-82	camp	1934±			D3	19,1,13
Pollock Hill	31-40-12	10-CW-82	tower	n.d.		disp 1962	D3	6
Pot Mountain	11-39-08	10-CW-192	camp	1909			D3	47
Pot Mountain	11-39-08	10-CW-192	frame cabin/plat	1915±			D3	1,31,20,2
Pot Mountain	11-39-08	10-CW-192	L-4 ; on ground	1934		moved 1939	D3	19,2,20,30,1,14
Potato Hill	14-40-02W	LT 8	camp	1933			D2	2
Potato Hill	14-40-02W	LT 8	tree platform	1933			D2	2
Potato Hill	14-40-02W	LT 8	H:L-4; 20' tower	1939		disp 1964	D2	7,13,2,1,34
Potato Hill	14-40-02W	LT 8	cabin	n.d.	existing		D2	2
Preceptor Point	34-41-07	CW 80	map board	1931			D3	3,2
Prospect Peak	35-43-04W	10-LT-94	camp	1936			D2	13,2,1,34
Ranger Peak	36-37-16	10-IH-1799	lookout	1960's			D6	51
Raspberry Butte	31-38-11	CW 176	H:L-4; 40' tower	1934		disp 1945	D3/D6	7,19,2,14,1,17
Raspberry Patrol	36-38-10	10-CW-468	L-6 ; 30' tower	1934			D6	1,14,19,3
Rd 201 Patrol	11-36-07	ID 560	spiked tree	1935±			D1	14
Rocky Point	02-37-14	10-IH-958	L-4 ; on log	1930±			D6	19,2,1,3,9,10
Rocky Point	02-37-14	10-IH-958	R6 flat; concrete	1964±	existing	manned	D6	16,5,4,7,13,2,1,25
Rocky Point	31-41-04W	10-LT-203	tree platform	1930's	existing		PRVT/PC	1,7,34
Rocky Ridge	19-36-08	10-IH-1454	log cabin/+observ	1917/19			D1	1,17
Rocky Ridge	19-36-08	10-IH-1454	D-6 cupola	1920		disp 1948	D1	2,1,3,14,7,43,9,10
Roundtop	21-37-15	10-IH-875	cabin	1930's			D6	1
Roundtop	21-37-15	10-IH-875	tree platform	1933±			D6	3
Roundtop	21-37-15	10-IH-875	L-4 ; 50' tower	1934	fndation	disp 1972	D6	11,24,7,13,19,2,1,3
Sand Mountain	03-41-02W	10-LT-77	pole platform	1921			BN	1
Sand Mountain	03-41-02W	10-LT-77	windmill tower	1924	remains	disp 1967	BN	1,2,7,13,34
Sand Mountain	03-41-02W	10-LT-77	cabin	1930's			BN	2
Savage Ridge	16-36-15	10-IH-954	L-5 log cabin	1929		disp 1972	D6	11,24,7,13,19,2,1,9,10
Scurvey Mountain	30-39-11	10-CW-147	pole platform	1917±			D3	1,17
Scurvey Mountain	30-39-11	10-CW-147	cupola cabin	1920's			D3	19,2,20,14,1,3
Scurvey Mountain	30-39-11	10-CW-147	log cabin	1921		burn 1931	D3	17
Scurvey Mountain	30-39-11	10-CW-147	H:L-4; on rock	1935			D3	1
Scurvey Mountain	30-39-11	10-CW-147	H:L-4; concrete	1952	existing	not manned	D3	5,4,7,2,1,17
Seven Mile Point	07-37-08	10-CW-200	G:L-4; 20' tower	1935±	fndation	disp 1962	D1	6,7,13,2,14,1,3

Name	Legal	Site No.	Site Type	Constr	Remains	Disposal	Owner	References
Shale Mountain	23-39-13	10-CW-476	camp	1930's		aban 1940's	D3	1
Sheep Hill	23-33-08	10-IH-1791	L-4 ; 30' tower	1933			D5	1
Sheep Mountain	28-40-07	10-CW-133	tree platform	1914±			D3	1
Sheep Mountain	28-40-07	10-CW-133	cabin w/30' tower	1917			D3	1,36,33,35
Sheep Mountain	28-40-07	10-CW-133	log cabin	1930's	fndation		D3	14,3
Sheep Mountain	28-40-07	10-CW-133	L-6 ; 50' tower	1930's	remains		D3	7,2,14,3,34,17
Sherman Peak	34-36-09	10-IH-164	lookout	n.d.			D5	2
Sherwin Point	20-42-01	10-LT-192	trailer L.O.	1956			PC/IPNF	1,34
Shin Point	21-39-07	CW 103	L-4 ; 30' tower	1935±			D3	7,2,14,3
Short Point	12-41-11	10-CW-467	camp	1940's			D3	1,34
Skookum Butte	01-38-16	10-IH-962	log & frame cabin	1928	existing		BN	7,2,1
Smith	14-41-05	10-CW-461	pole platform	1918		aban 1930's	IDL	34,1,3
Smith Butte	26-37-09	10-IH-998	camp	1931		aban 1949±	D1	7,13,2,1,3
Smith Ridge	15-41-06	10-CW-464	lookout	1930's			D3	34
Smith Ridge	16-41-06	10-CW-465	camp	1931			D3	3
Smith Ridge	17-41-06	10-CW-221	L-6 ; 80' tower	1931		disp 1946	D3	7,13,2,14,1,3,34,40,17
Smith Ridge	17-41-06	10-CW-221	log cabin	1931			D3	1,14,3
Sneak Point	09-40-08	10-CW-475	pole platform	1930's			D3	3
Sneak Point	18-40-08	10-CW-474	L-4 ; 50' tower	1930's			D3	14,37
Sneak Point	20-40-08	10-CW-472	camp	1940		aban 1941	D3	1
Snow Cap	07-42-01W	10-LT-196	lookout	1930's			D2	34
Snow Creek	19-41-09	10-CW-462	camp	1936			D3	3
Snowy Summit	33-36-07	10-IH-1366	L-4 ; 10' tower	1931		disp 1947	D1	7,2,14,1,3,43
Snowy Summit	33-36-07	10-IH-1366	garage	1934	fndation	disp 1947	D1	2,14,43
Split Creek	05-33-09	10-IH-1419	30' tower	1931	fndation	burn 1934	D5	2,8,7,11
Split Creek	05-33-09	10-IH-1419	camp	1934		aban 1942	D5	1
Sponge Mountain	29-35-11	10-IH-968	tree platform	1930	existing		D5/D6	1
Sponge Mountain	29-35-11	10-IH-968	camp	1939			D5/D6	2,8
Spring Mountain	02-37-12	ID 124	lookout	n.d.			D6	2
Spy Point	24-38-10	CW 175	lookout	n.d.			D3/D6	2
Stanley Butte	33-34-10	10-IH-971	camp	1921			D5	8,17
Stanley Butte	33-34-10	10-IH-971	log cabin	1922		disp 1954	D5	2,8,14,1,9,10,7,13
Stanley Butte	33-34-10	10-IH-971	pole platform	1934			D5	1
Star Point	16-38-10	10-CW-478	camp	1930's			D3	1
Taffy Point	35-42-08	10-SE-898	camp	1931			BN	3
Tamarack Butte	05-37-07	10-CW-310	tree ladder	1932±			D1	3
Tamarack Butte	05-37-07	10-CW-310	H:L-4; 40' tower	1933±		disp 1950's	D1	7,13,2,14,1,3,17
Tamarack Patrol	04-37-07	CW 437	spiked tree	1935±			D1	14
Tamarack Patrol	08-37-07	CW 436	spiked tree	1935±			D1	14

Name	Legal	Site No.	Site Type	Constr	Remains	Disposal	Owner	References
Thompson Point	33-41-06	CW 413	L-4 ; on ground	1932			D3	7,14,1,3,48
Thompson Point	33-41-06	CW 413	pole platform	1934±			D3	3,34,40,1,14,13,7,6
Three Tree Butte	36-43-03W	10-LT-143	tree platform	n.d.			D2	2,34
Toboggan Ridge	05-38-12	CW 171	G:L-4; 10' tower	1930±		disp 1950's	D3	7,13,19,2,14,1,3,17
Toboggan Ridge	05-38-12	CW 171	tree platform	1931			D3	1,3,2,19
Toboggan Ridge Ptr	05-38-12	CW 180	tree platform	n.d.			D3	1,2
Trap Point	16-41-11	10-CW-281	tree ladder	n.d.			D3	2
Trap Point	16-41-11	10-CW-281	log cabin	n.d.			D3	2
Turnbow Mountain	25-41-04W	10-LT-200	emer point	1930's			PRVT	1,34
Twin Peaks	22-39-10	CW 159	camp	1934		aban 1930's	D3	11,7,13,2,1,3
Van Camp	32-34-08	10-IH-997	camp	1925			D5	9,8
Van Camp	32-34-08	10-IH-997	pole platform	1925		aban 1950	D5	1,2,8,10,11,7
Van Camp	32-34-08	10-IH-997	G:L-4; on logs	1930		disp 1960	D5	1,2,8,6
Vanderbilt Hill	31-42-11	SE 337	camp	1934			D3	19,2,1,3,34
Vanderbilt Hill	31-42-11	SE 337	log cabin	1930's	remains		D3	52
Vanderbilt Hill Pt	30-42-11	10-SE-896	lookout	1930's			D3	34
Walde Mtn	31-34-07	10-IH-1004	steel tower 100'	1939	existing	manned	D5	16,5,4,7,2,1,8,3,6
Walde Mtn	31-34-07	10-IH-1004	log cabin	1941	existing	rental**	D5	16,5,4,2,1,8
Wallow Mountain	01-40-08	10-CW-228	D-6 cupola	n.d.			D3	17
Wallow Mountain	01-40-08	10-CW-228	G:L-4; on log	1932			D3	1,3,5,6,13,2,14,34
Wallow Mountain	01-40-08	10-CW-228	R6 flat; 10' tow	1968	existing	not manned	D3	16,4,12,7,2,1
Wallow Mtn Patrol	01-40-08	10-CW-377	L-6 ; 10' tower	1934			D3	19,2,14,3,34,6
Warm Springs	10-35-13	ID 177	lookout	1937±			D6	2
Weir Point	35-37-11	ID 174	lookout	n.d.			D6	2
Weitas Butte	10-36-08	10-IH-1006	G:L-4; 30' tower	1931			D1	6,2,14,1,3,43
Weitas Butte	10-36-08	10-IH-1006	garage	1935	fndation		D1	2,14,3,43
Weitas Butte	10-36-08	10-IH-1006	R6 hip;50' tower	1954	existing	rental	D1	21,22,16,5,4,6,7,2,1
Weitas Ridge Point	05-36-09	10-IH-1794	camp	1937±			D1	19,3
Wendover Ridge	15-37-13	10-IH-570	L-4 ; 50' tower	1934		disp 1950's	D6	7,13,19,2,1,3,9,10
West Dennis	09-43-03W	10-BW-52	L-4 ; 10' tower	1931			D2	1,7,2,34
West Twin	13-40-05W	LT 4	camp	1936			PRVT	13,2,33,34
West Twin	13-40-05W	LT 4	tree platform	1936			PRVT	2,1
White Sand	23-36-16	ID 175	camp	1930's			D6	13,2,1
Willow Ridge	12-35-08	ID 562	camp	1942			D5	1
Willow Ridge	13-35-08	ID 102	camp	1929			D5	8
Willow Ridge	13-35-08	ID 102	L-4 ; on ground	1930		burn 1934	D5	2,8

** Winter rental; manned in summer

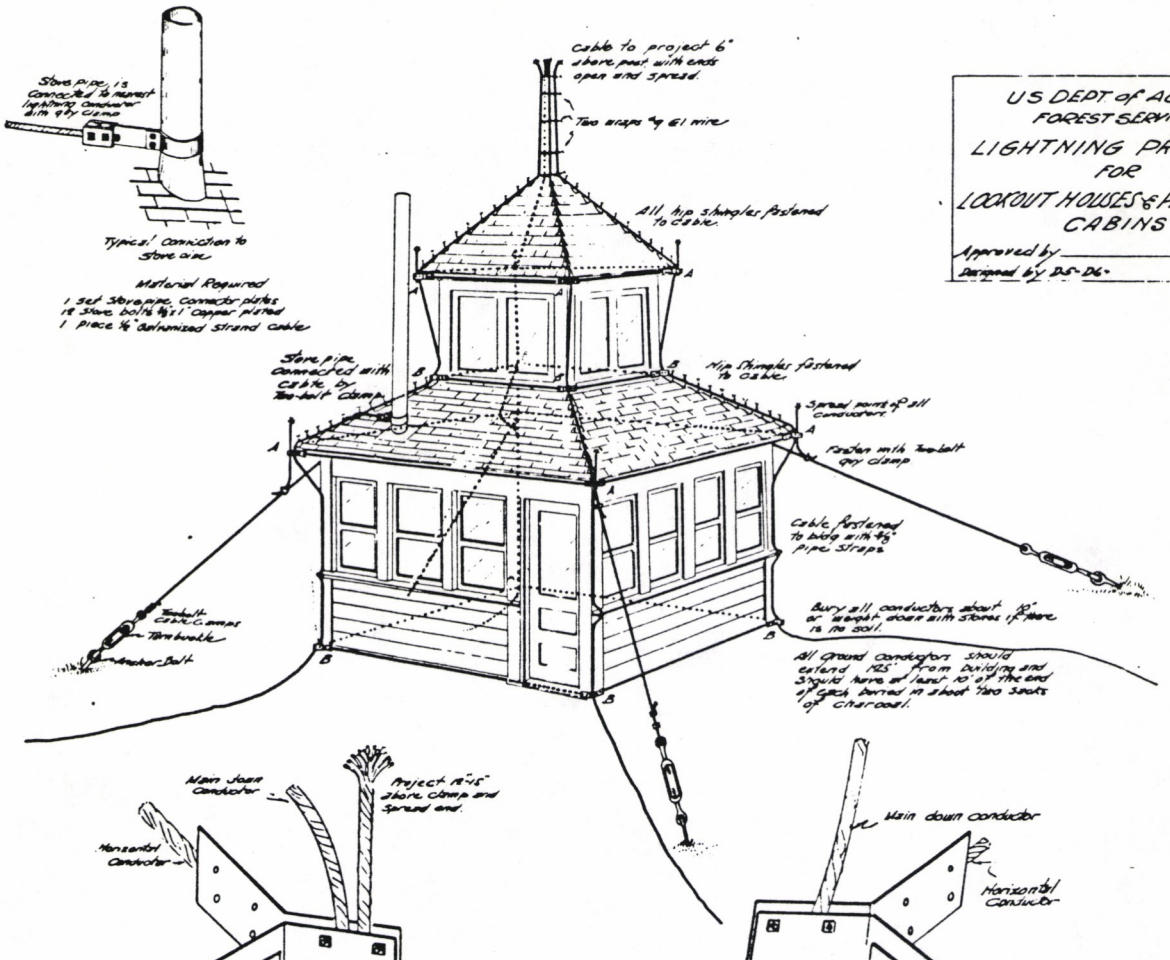
Name	Legal	Site No.	Site Type	Constr	Remains	Disposal	Owner	References
Woodrat	24-33-05	10-IH-1416	tree platform	1914			D5/IDL	2
Woodrat	24-33-05	10-IH-1416	encl platform	1925			D5/IDL	1,8,3,9,10
Woodrat	24-33-05	10-IH-1416	log cabin	1925		aban 1966	D5/IDL	1,2,3,8
Woodrat	24-33-05	10-IH-1416	L-4 ; 40' tower	1935			D5/IDL	1
Woodrat	24-33-05	10-IH-1416	H:L-4; 50' tower	1950		disp 1973±	D5/IDL	1,16,2,5,4,7,6,8
Wounded Doe Ridge	36-35-11	10-IH-1792	camp	1933		aban 1939	D6	1,3

APPENDIX B

Selected Lookout Construction Blueprints

1. D–6 lightning protection plan (1928)
2. L–2 plan (1928)
3. L–3 plan (1928)
4. L–4 gable plan (1930)
5. L–4 hip (pyramid) plan (1931)
6. L–5 plan (1928)
7. L–6 plan (1932)
8. Tree Development Observatory plan (1932)
9. R–6 flat roof plan (1954)

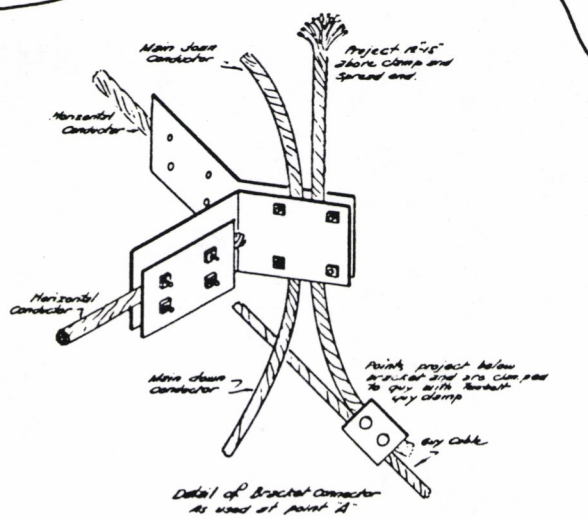
LOOKOUT HOUSE


Stove pipe, is connected to nearest lightning conductor with qty clamp
Typical connection to stove pipe
Material Required
1 set Stovepipe connector plates
18 Stove bolts ⅜ x 1" Copper plated
1 piece ⅜" Galvanized Strand Cable
Cable to project 6" above peak with ends open and spread.
Two straps ⅜ GI wire
All hip shingles fastened to cable.
Stove pipe connected with Cable by Two bolt Clamp
Hip Shingles fastened to cable.
Spread points of all Conductors
Fasten with Two bolt guy clamp
Cable fastened to body with ⅜" pipe Straps
Two bolt Cable Clamps
Turnbuckle
Anchor Bolt
Bury all conductors about 18" or length does with stones if there is no soil.
All Ground Conductors should extend 12½' from Building and should have at least 10' of the end of each buried in about two sacks of charcoal.

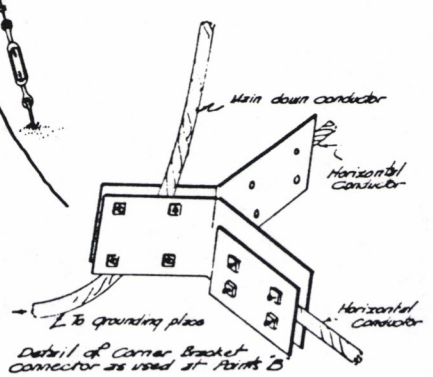
US DEPT of AGRICULTURE
FOREST SERVICE DIST No 1

LIGHTNING PROTECTION FOR LOOKOUT HOUSES & PATROLMAN'S CABINS

Approved by _____ June 1918
Designed by D.S.-D.C. Tr. by J.B. Hales


Main down Conductor
Horizontal Conductor
Project 12"-15" above Clamp and Spread ends.
Horizontal Conductor
Horizontal Conductor
Main down Conductor
Points project below bracket and are clamped to guy with Two bolt guy clamp
Guy Cable

Detail of Bracket Connector As used at point A

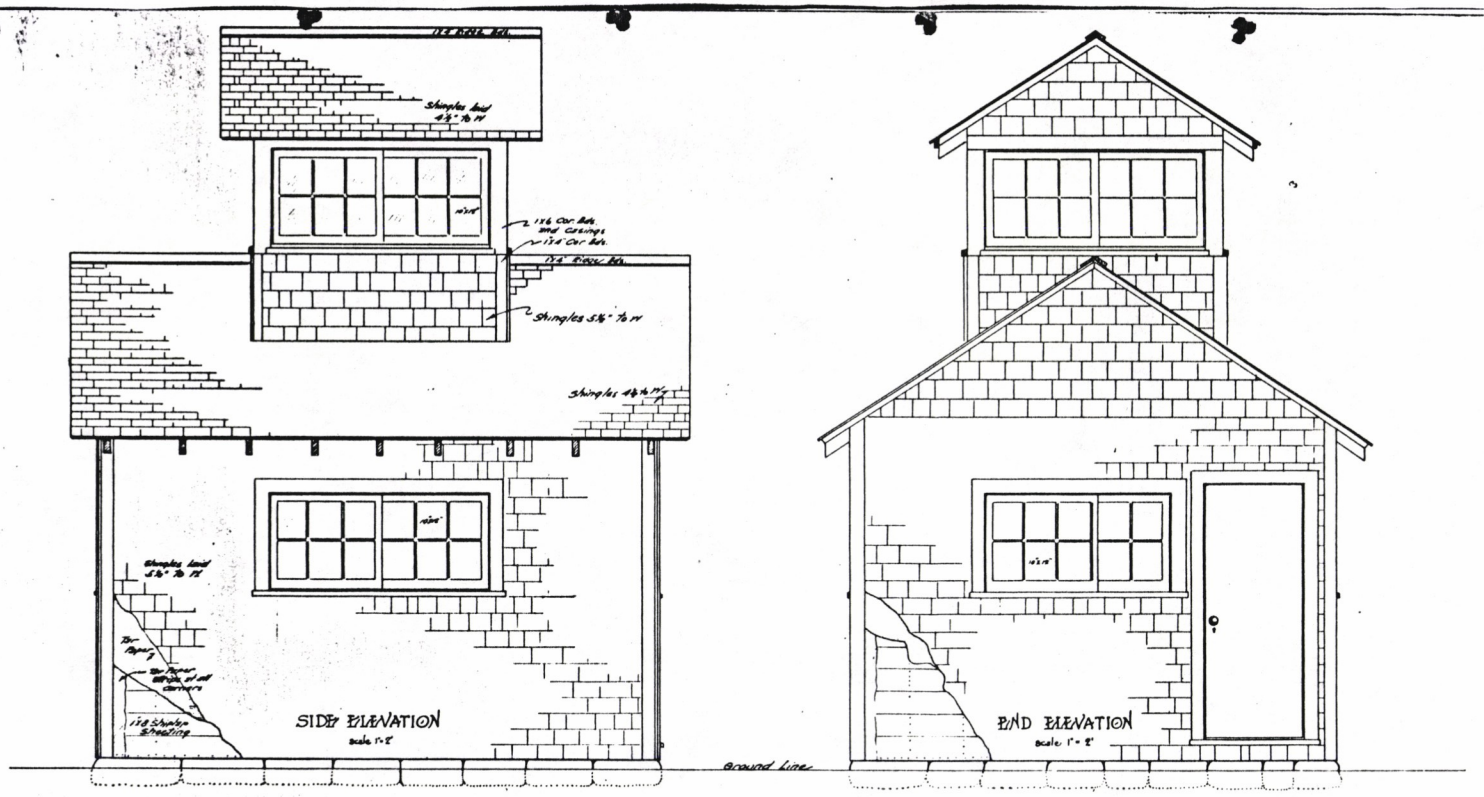


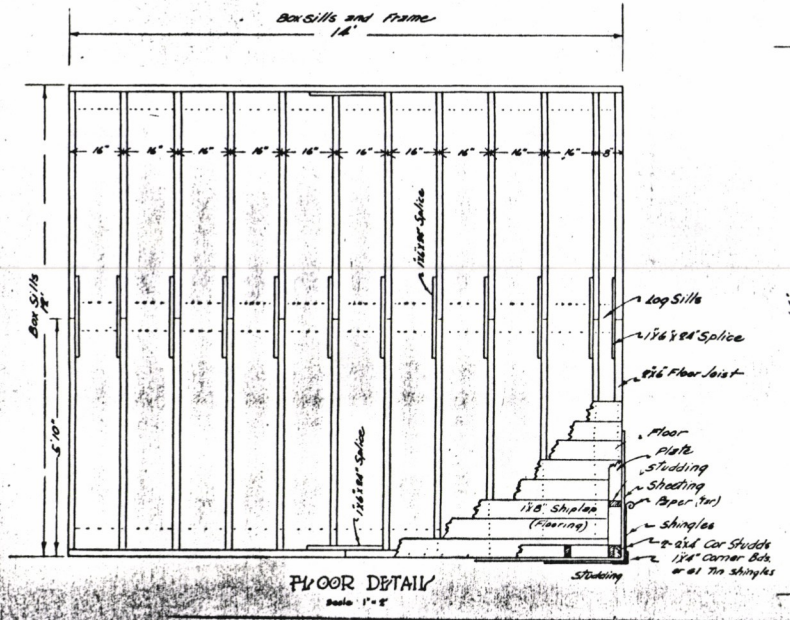
Detail of Corner Bracket Connector as used at Points B

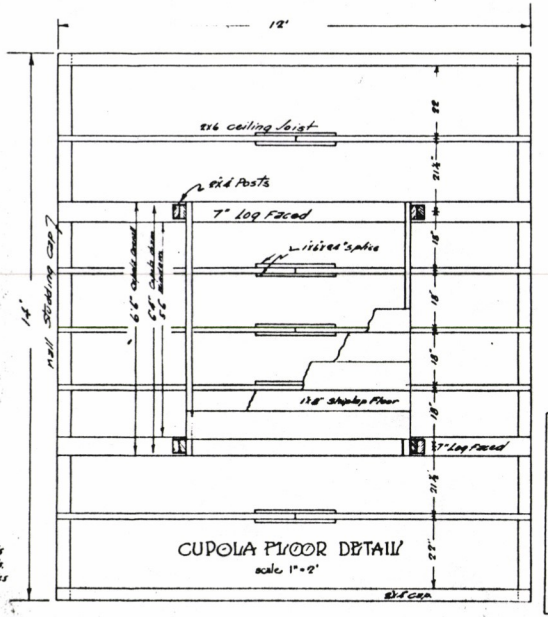
MATERIAL REQUIRED
for
D-6 LOOKOUT HOUSE

5	2-bolt guy Clamps				
16	corner bracket Connectors	@	Approx	16 ea Each	$4.00
198	⅜" x 1" Stove bolts	@	-	16 ea -	1.00
200	¼" x ⅞ PH Wood Screws	@	-		
8	sks Charcoal				
90	⅜" GI pipe Straps	@	-	10	8.40
10	⅜ GI pipe - Where no wire used to attach Hip shingles to cable	@	-		1.60
770'	⅜" GI Strand Cable. See list below	@	-	2¢ per ft	15.40

4	pc 120'	Main down Conductor	480'	
4	- 6-7'	Horizontal	26'-4"	
4	- 6'	- Tower -	24	
4	- 13'-4"	- Pole -	53'-4"	
4	- 10'	- Gallows	40'	
4	- 1'-6"	Points to Tower	6'	
4	- 3'	- - Main Body	12'	







INDEX of SHEETS

1. ELEVATION & FLOOR
2. DETAIL FLOOR PLAN & LIGHTNING PROTECTION
3. BILLS OF MATERIAL & SPECIFICATIONS

U.S. DEPT of AGRICULTURE
FOREST SERVICE DIST No. 1

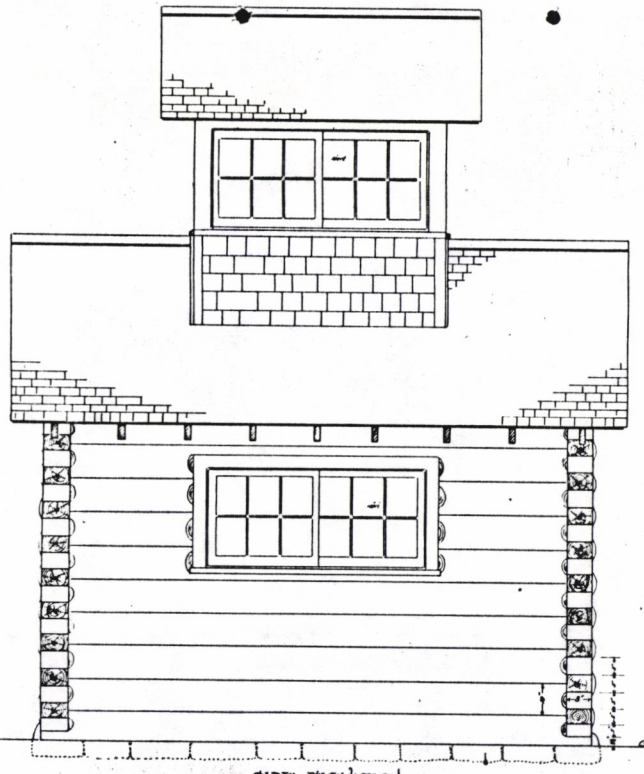
FRAME LOOKOUT HOUSE

PLAN L-2

Approved by _____
_____
D. F. S.

Tr. 18 Helena Apr. 1918

Sheet 1 of 3



SIDE ELEVATION

Ground Line

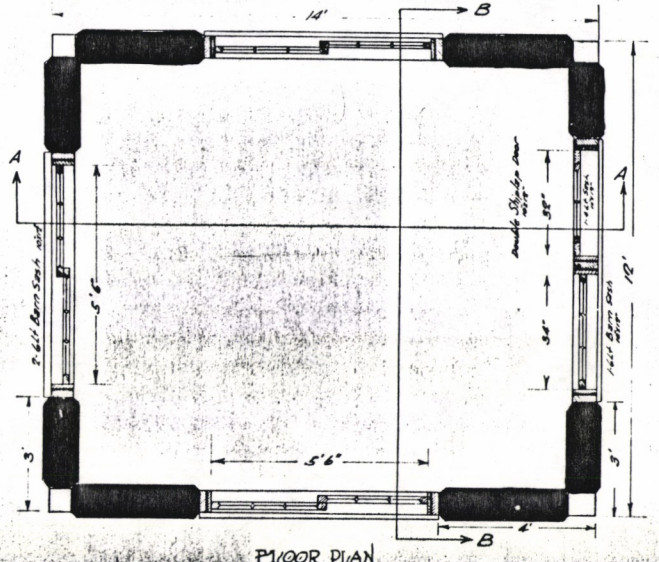
END ELEVATION
Scale 1"-2'

INDEX OF SHEETS

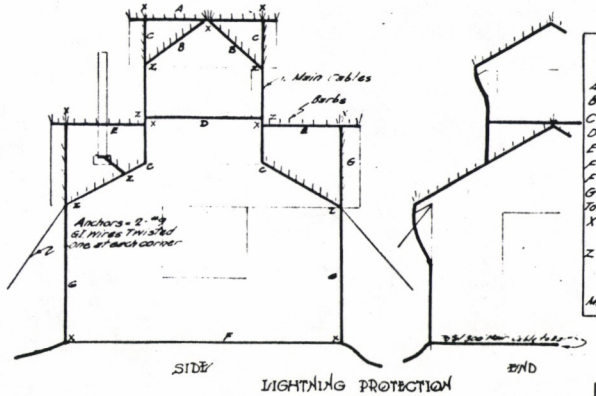
1 ELEVATIONS, FLOOR PLAN & LIGHTNING PROTECTION

2 CROSS SECTIONS & DETAIL

3 BILLS OF MATERIAL & SPECIFICATIONS



FLOOR PLAN
Scale 1"-2'



LIGHTNING PROTECTION DIAGRAM

LIGHTNING PROTECTION MATERIAL

Use #4 GI Wire or Copper-clad or ⅛" 7 strand cable as desired

A	1	8'	Cupola Ridge
B	2	12'	" Roof Diagonal
C	4	16'	Eaves Main Roof & over cupola
D	4	6½'	Belt under Cupola Floor
E	2	5'	Main Roof Ridge
F	2	14'	Belt Foundation line
F	2	12'	" "
G	4	16½'	Main Leads over Roof
Total		77½'	(or 6'-3")
X	13		Corner Bracket Connectors
	160	⅜" x 1"	Stove Bolts
Z	11		2 Bolt Guy Clamps
	100	⅜" GI	Pipe Straps
	360	¾" x 8	R.H. Wood Screws

Material to bond Stove pipe, cable

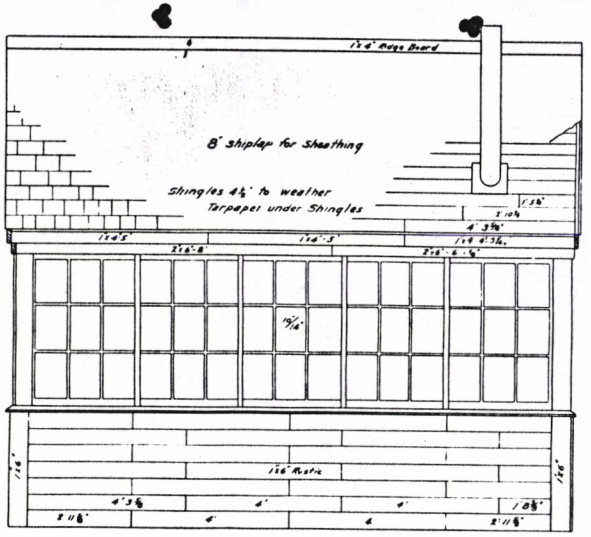
US DEPT of AGRICULTURE
FOREST SERVICE DIST. NO. 1

LOG LOOKOUT HOUSE

PLAN L-3

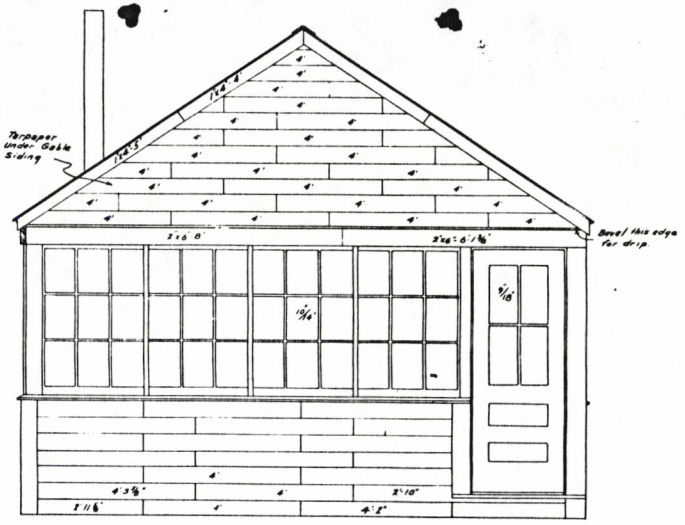
Approved by C.J. Kerkdan

Tr. 18 Nov. Apr. 1943 Sheet 1 of 3

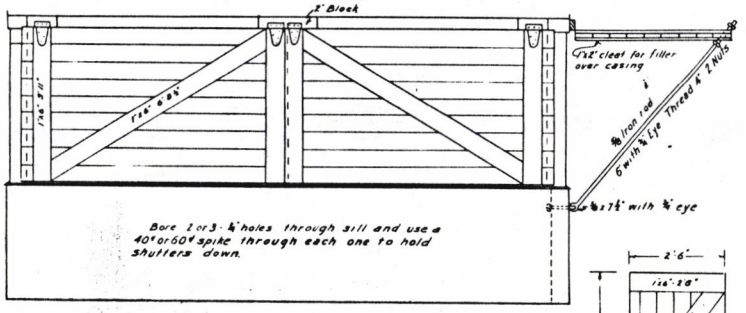


SIDE ELEVATION

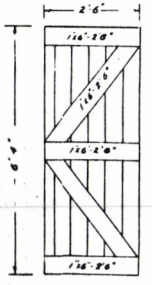
Note: Put siding on from the top down over tarpaper.



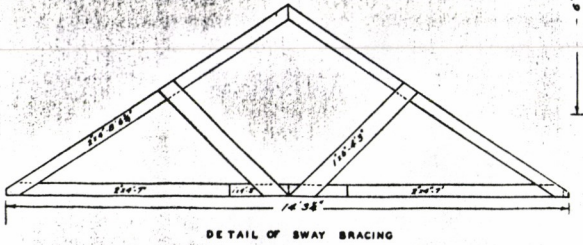
FRONT ELEVATION


2" Block
1"x2" cleat for filler over casing
⅜" Iron rod 6' with ⅜" Eye Thread & 2 NUTS
Bore 2 or 3 - ½" holes through sill and use a 40d or 60d spike through each one to hold shutters down.

WINDOW SHUTTER DETAIL

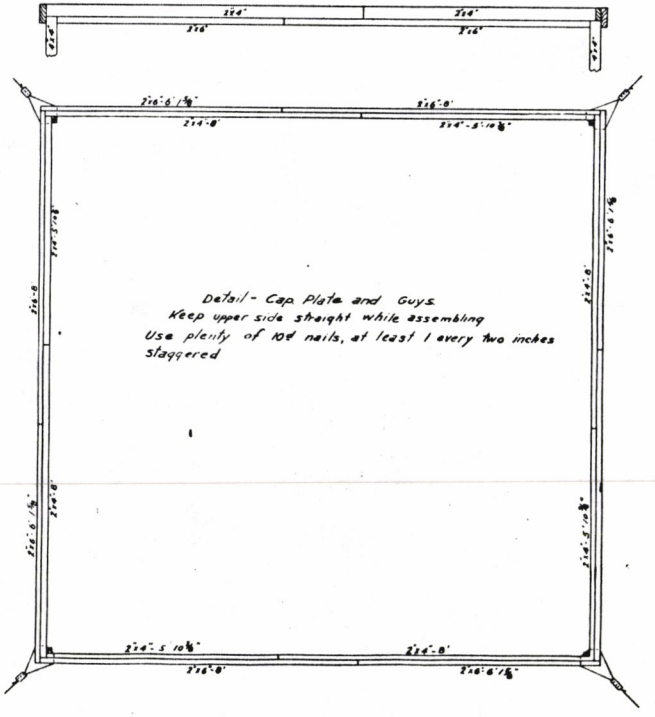


DOOR SHUTTER

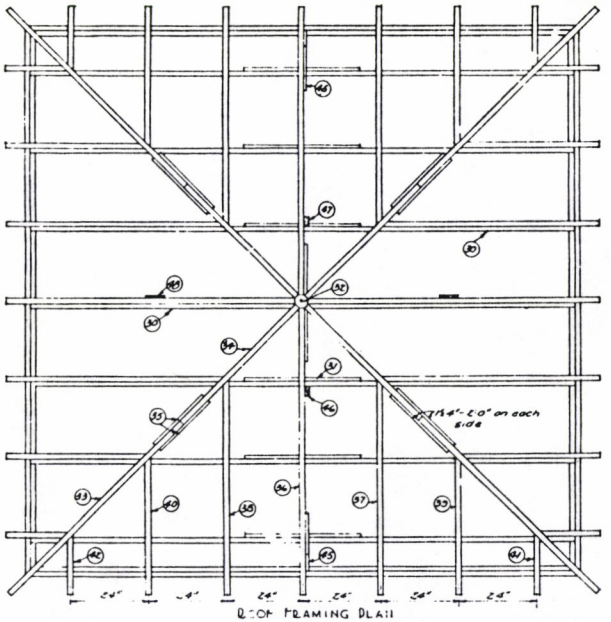


DETAIL OF SWAY BRACING

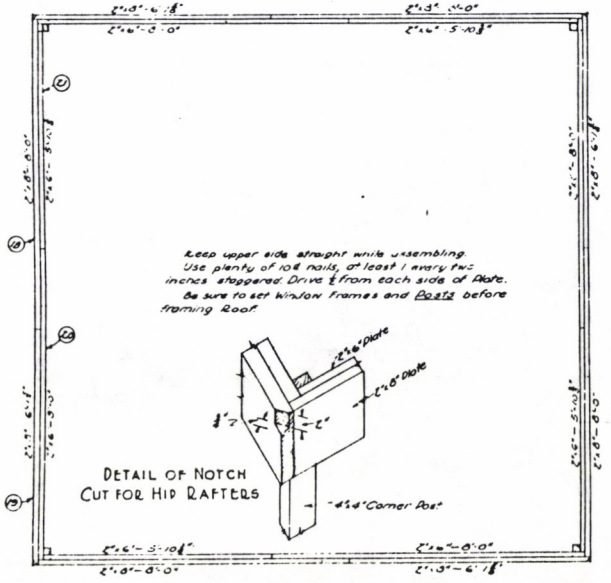
Scale 1" = 2'


Detail - Cap Plate and Guys.
Keep upper side straight while assembling
Use plenty of 10d nails, at least 1 every two inches
Staggered

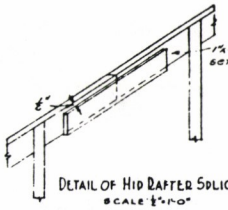
LOOKOUT HOUSE
PLAN L-4
DEC. 1930
1937 Revision
SHEET 2 OF 5



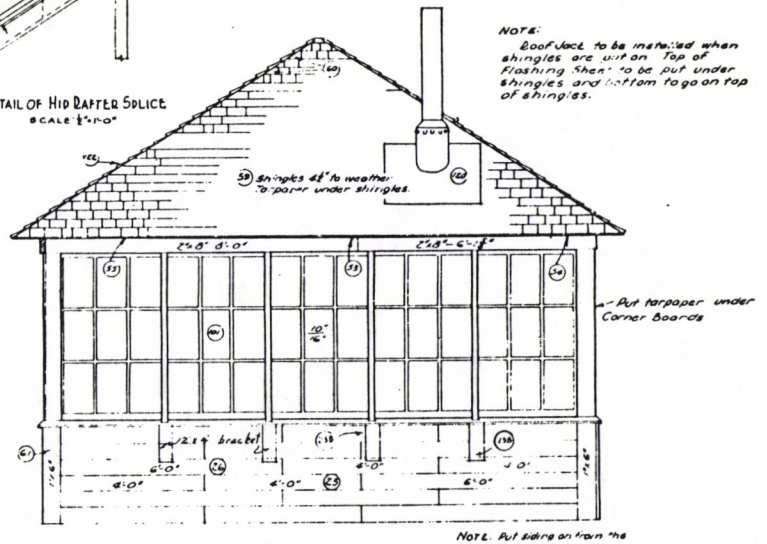
ROOF FRAMING PLAN


Keep upper side straight while assembling. Use plenty of 10d nails, at least 1 every two inches staggered. Drive 4 from each side of Plate. Be sure to set Window Frames and Doors before framing Roof.
2"x6" Plate
2"x6" Plate
4"x4" Corner Post
DETAIL OF NOTCH CUT FOR HIP RAFTERS

DETAIL OF CAP PLATE

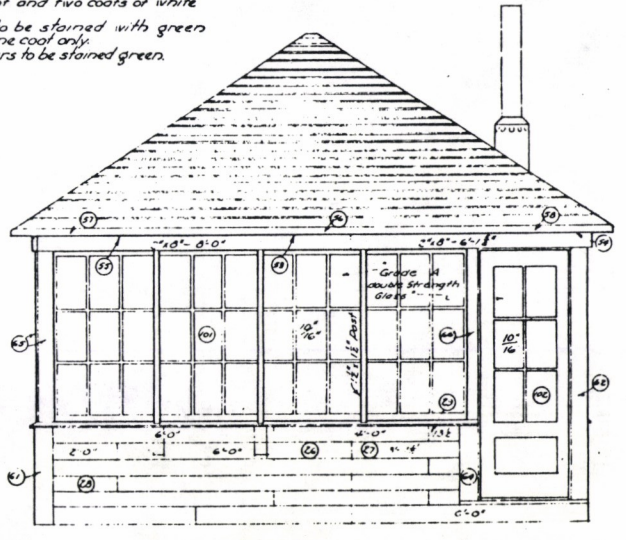


DETAIL OF HIP RAFTER SPLICE
SCALE: 1"=1'-0"


Note:
Roof Jack to be installed when shingles are laid on. Top of Flashing Sheet to be put under shingles and bottom to go on top of shingles.
Shingles 4½" to weather. Tarpaper under shingles.
2'-0" 8'-0"
2'-0" 6'-1½"
Put tarpaper under Corner Boards
2"x8" bracket
6'-0"
4'-0"
4'-0"
6'-0"
Note. Put siding on from the top down over tarpaper.

SIDE ELEVATION

Exterior finish to consist of one coat of aluminum paint and two coats of white paint.
Inside finish to be stained with green shingle stain, one coat only.
Inside of shutters to be stained green.

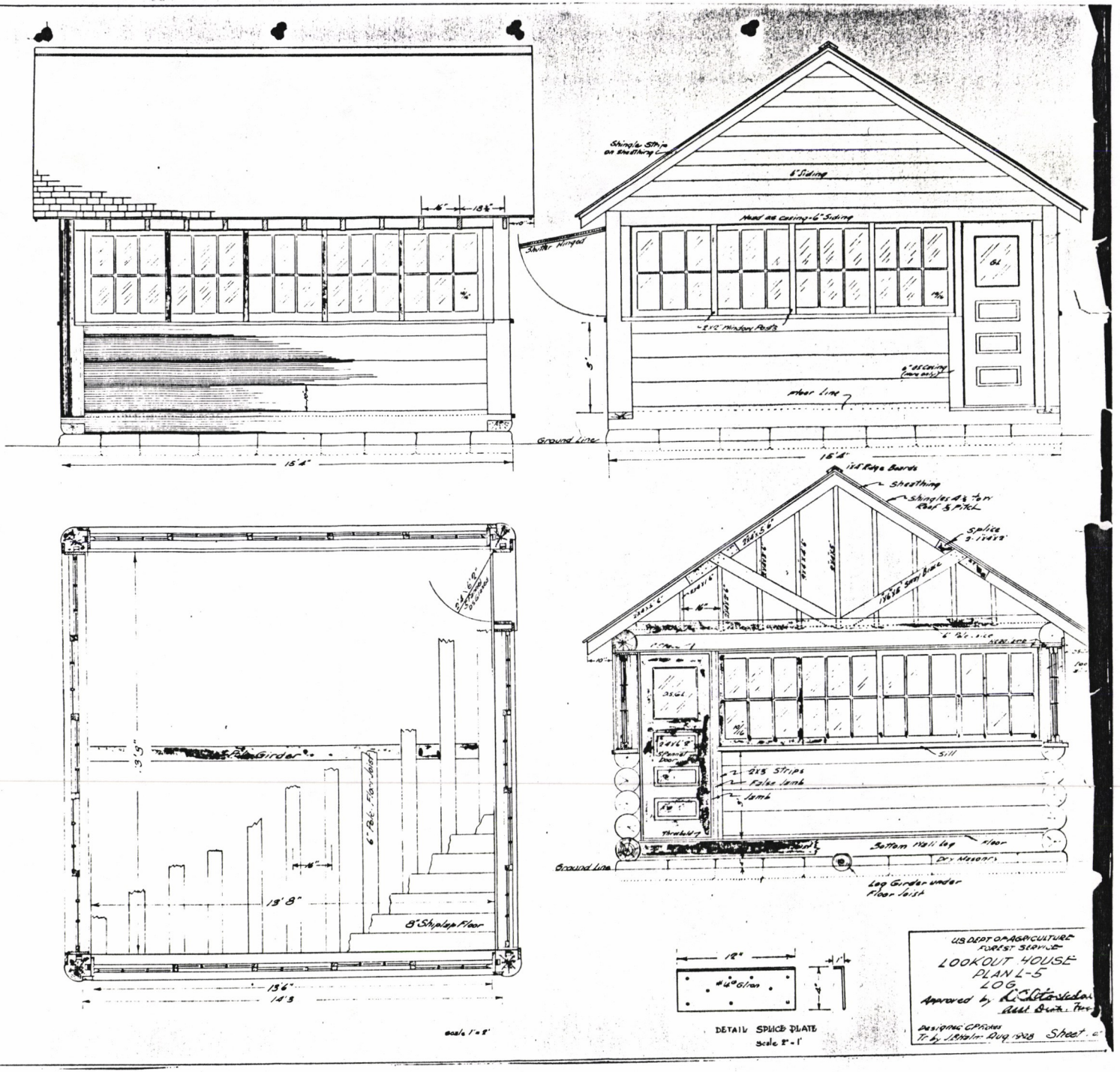


FRONT ELEVATION

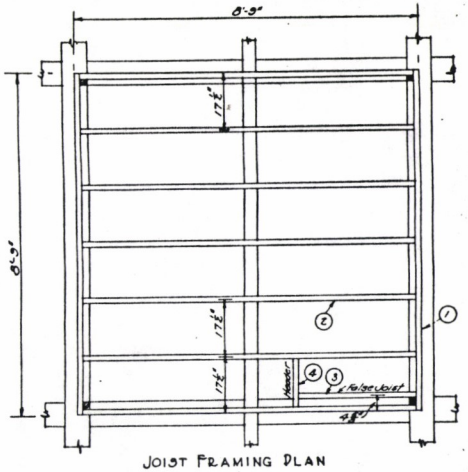
General Notes:
Flag poles or wind gauges must not be attached to an erected cupola, lookout houses or towers except when specifically provided for by special instructions.
Name of lookout to be painted on roof or shutters with International Orange. Shingles to be left unstained.

SCALE: ½"=1'-0"

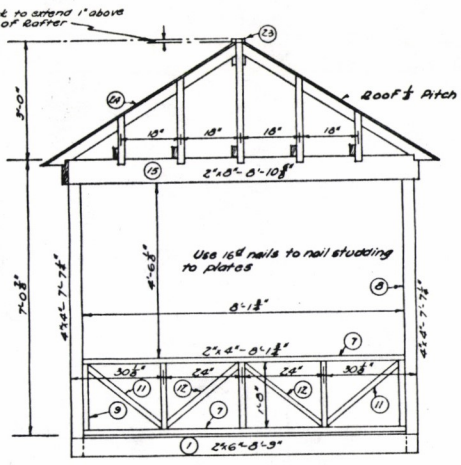
LOOKOUT HOUSE
PLAN L-4
DEC. 1931 SHEET 2 OF 7


Shingle Strips on Sheathing
6" Siding
Head as Casing + 6" Siding
Shutter Hinged
2 x 2 Window Posts
6" x 8" Ceiling Joists
Floor Line
Ground Line
15'4"
16'4"
1x4 Ridge Boards
Sheathing
Shingles 4½" to Roof & Pitch
Splice 3-1"x8"
1"x8" Sawn Brace
Sill
2x8 Strips
False Jamb
Jamb
Threshold
Bottom Wall Log
Floor
Dry Masonry
Log Girder under Floor Joist
Ground Line
Log Girder
6" Rabbet for Floor
8" Shiplap Floor
13'8"
14'3"
12"
#4 @ 6 in
DETAIL SPLICE PLATE
Scale 2" = 1'
US DEPT OF AGRICULTURE
FOREST SERVICE
LOOKOUT HOUSE
PLAN L-5
LOG
Approved by
Asst Dist. Forr
Designed CP Nichols
Tr by J.R. Kelm Aug 1928
Sheet

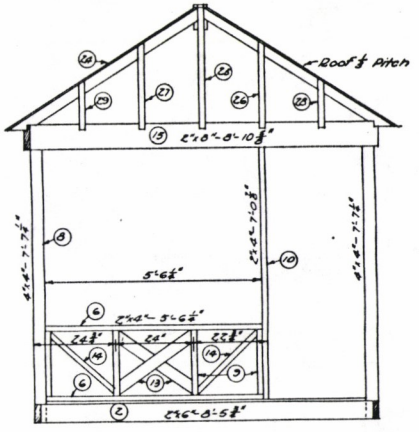
THIS STRUCTURE TO BE USED FOR PATROL STATIONS AND FOR ALL TOWER HOUSES ON T-1 AND T-2 TOWERS



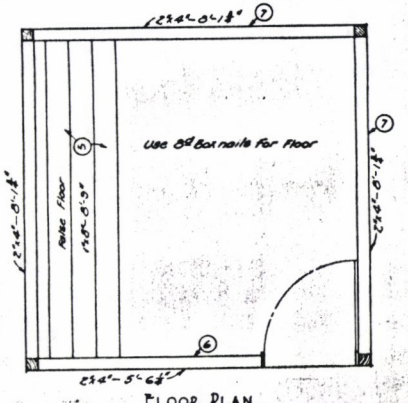
JOIST FRAMING PLAN
SCALE: ½"=1'-0"



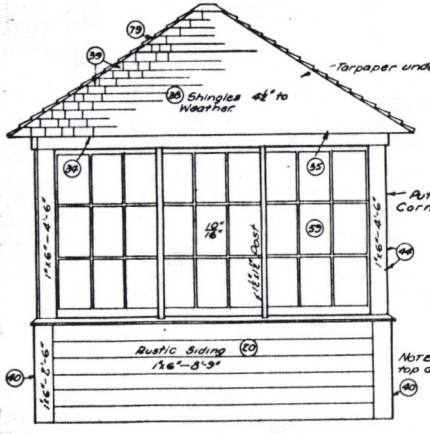
SIDE FRAMING DETAIL
SCALE: ½"=1'-0"



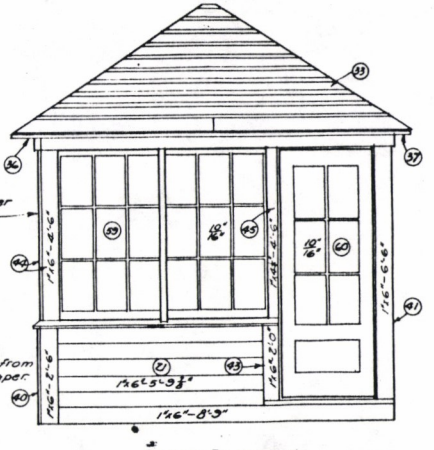
FRONT FRAMING DETAIL
SCALE ½"=1'-0"



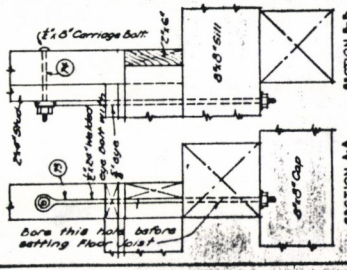
FLOOR PLAN
SCALE ½"=1'-0"

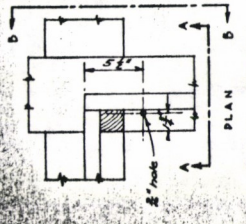

Tarpaper under Shingles
Shingles 4½" to Weather
Put tarpaper under Corner Boards
Rustic Siding
1'6"-8'-9"
Note: Put siding on from top down over tarpaper.

SIDE ELEVATION
SCALE ½"=1'-0"

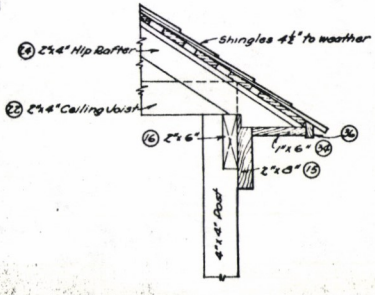


FRONT ELEVATION
SCALE ½"=1'-0"





TYPICAL DETAIL OF ANCHORING
SCALE: 1½"=1'-0"



CORNER DETAIL
SCALE: 1½"=1'-0"

Note: Numbers in circles refer to items on Bill of Material.

U. S. DEPT OF AGRICULTURE
FOREST SERVICE REGION NO. 1.

PATROL SHELTER OR TOWER CUPALO

PLAN L-6 1932 REVISION

DESIGNED BY C.R. FICKES

APPROVED BY [illegible] Regional Forester

JAN 1932

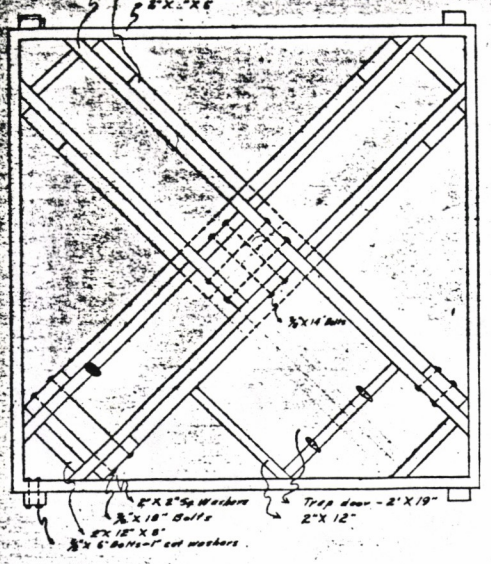
SHEET 1 OF 5

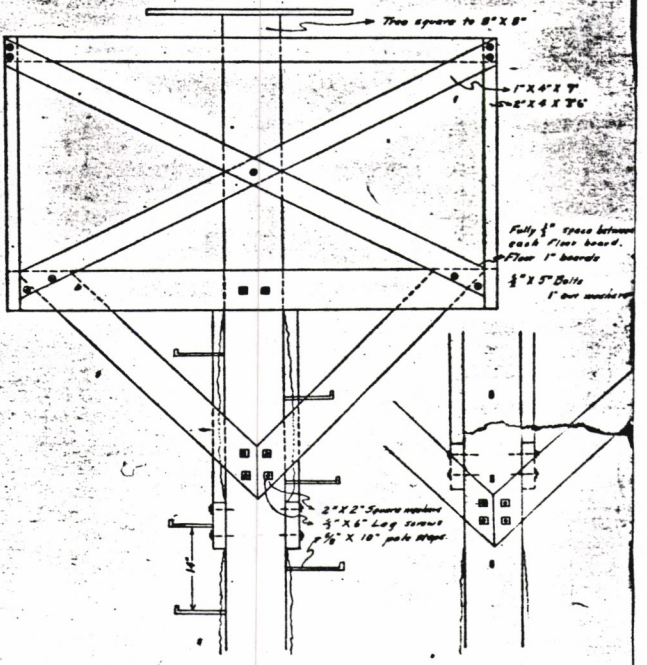
Drawn By RH Compton

TREE DEVELOPMENT OBSERVATORY

Kootenai National Forest
Clearwater National Forest

Scale – 1 inch = 1 foot





When necessary four 3/8" cable with tune buckles are used for guys. Short towers 85' and under, are guyed with #3 wire in double strands.
In the case of high towers woven wire fence has been used for protection in case of man falling. Two lengths of 5' wire are fastened on the back side of tree. These are brought around on front side and wired together leaving a tonal effect slightly larger than necessary for a man to go up and down easily. Leaving as many green limbs as possible will give longer life to the tree.

Bill Of Material

Lumber

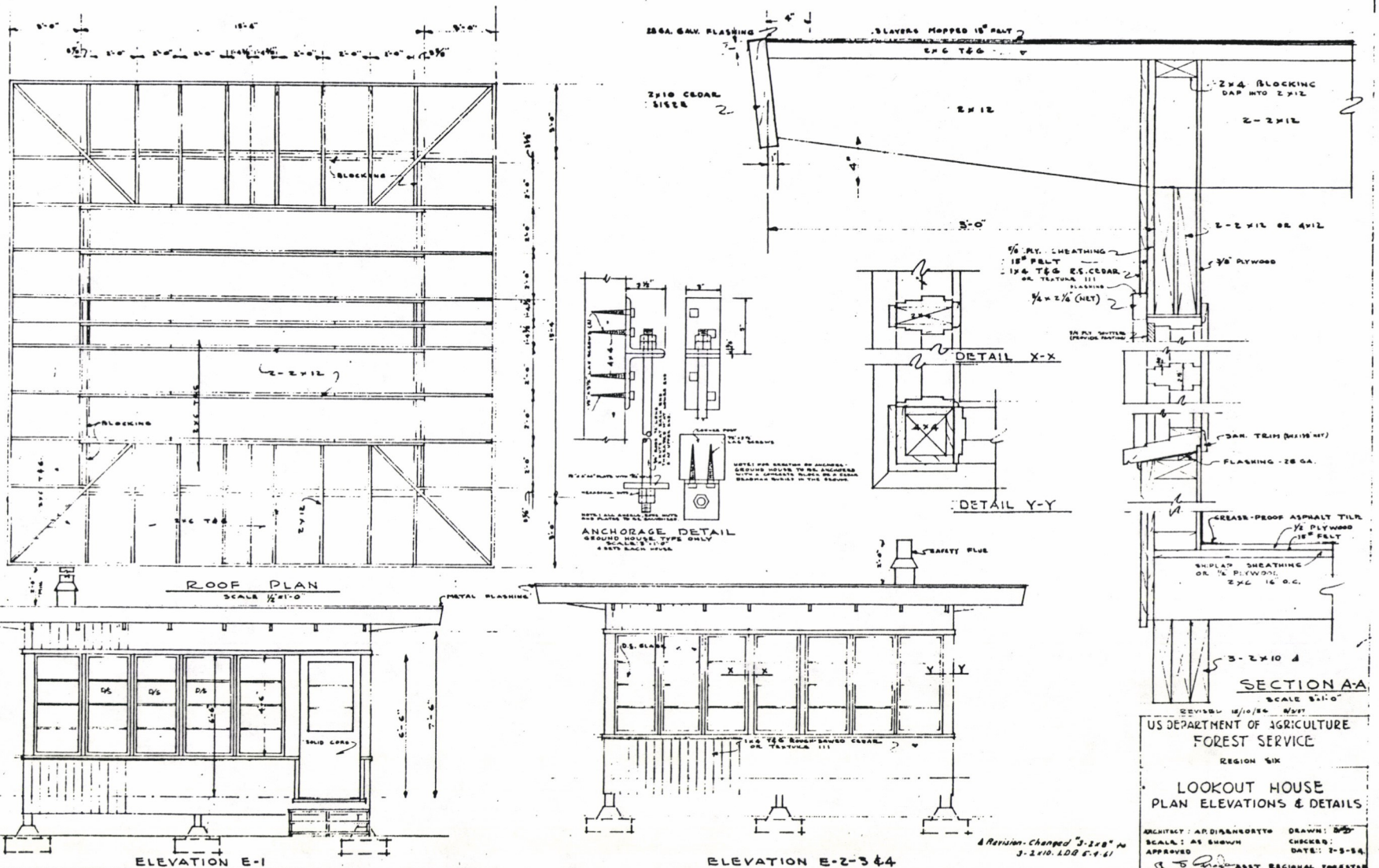
Item No.	No. Pieces	Size	Material	Use
1	3	2"X 12"X 16'-8"	Common Fir	Floor Joists
2	3	12"X 6"-4'6"	" " "	Platform braces
3	4	12"X6"-6'8"	" " "	" "
4	4	12"X 6" - 6'	" " "	Outside Floor Joists
5	1	12"X 6"-7'9"	" " "	Floor joists
6	4	12"X 4"-3'6"	" " "	Corner posts
7	4	12"X 4"- 6'	" " "	Railings
8	8	10"X 4"- 7"	" " "	Railing cross braces
9	12	1"X 6" - 6'	" " "	Flooring
10	1	12"X 6" - 9'11"	" " "	Floor Joist

Hardware

Item No.	No. Pieces	Size	Material	Use
1	2	8"	Hinges	Trap door
2	16	1/4"X6"	Lag screws	Braces to tree
3	6	3/8"X 18"	Carriage Bolts	Braces to floor joists
4	2	3/8"X 6"	" " "	" " "
5	8	1/4"X6"	" " "	Cross braces (top)
6	24	1/4"X 5"	" " "	Cross braces (bottom)
7	4	1/4"X 3"	" " "	Cross braces (center)
8	4	3/8"X 14"	" " "	Floor Sills to Tree
9	40	2"X 2"	Square washers	Lag screws & bolts
10	64	1"	Cut washers	Bolts as braces
11	4#	16d Common	Nails	
12	8#	8d box	Nails	

Lightning protection same as for standard pole or tree towers without watered observatories - Page 33 Instructions & Specifications For Protection Against Lightning - 1932
Use 5 gal. Creosote

Designed by S.K.O.
Traced by V.H.E. 4-5-33



& Revision - Changed "3-2x8" to 3-2x10. LDO 6-4-61

REVISED 10/10/56 — 8/2/57

US DEPARTMENT OF AGRICULTURE
FOREST SERVICE
REGION SIX

LOOKOUT HOUSE
PLAN ELEVATIONS & DETAILS

ARCHITECT: A.P. DIBENEDETTO
SCALE: AS SHOWN
APPROVED
DRAWN:
CHECKED:
DATE: 2-3-54

ASST. REGIONAL FOREST

B-4302

SHEET 2 of 4